

Ephemerides year 2013

# Ephemeris Tables for the year 2013

## Tropical Zodiac

Sun, Moon, Mercury, Venus, Mars, Jupiter, Saturn, Uranus, Neptune, Pluto, Moon's Node, Chiron, Lilith, True Node, True Lilith, Eris, Sedna

Tradizione Esoterica - Web: <https://tradizione-esoterica.com> - eMail: [tradizione.esoterica@gmail.com](mailto:tradizione.esoterica@gmail.com)

## Symbols

### Planets

☉ = Sun  
☾ = Moon  
☿ = Mercury  
♀ = Venus  
♂ = Mars  
♃ = Jupiter  
♄ = Saturn  
♅ = Uranus  
♆ = Neptune  
♇ = Pluto  
X = Eris  
Y = Sedna

### Zodiacal Signs

♈ = Aries  
♉ = Taurus  
♊ = Gemini  
♋ = Cancer  
♌ = Leo  
♍ = Virgo  
♎ = Libra  
♏ = Scorpio  
♐ = Sagittarius  
♑ = Capricorn  
♒ = Aquarius  
♓ = Pisces

### Asteroids and Other Points

♄♅ = Chiron  
♌ = Moon's Node  
T♌ = True Node  
♁ = Lilith  
T♁ = True Lilith

Ephemerides year 2013

| Date       | Time     | Planet | Longitude   | Declination  | Latitude   | Speed      | Radius |
|------------|----------|--------|-------------|--------------|------------|------------|--------|
| 01/01/2013 | 00:00:00 | ☉      | 10°43'47" ♁ | -23°00'08"   | -00°00'00" | 01°01'08"  | 0.983  |
| 01/01/2013 | 00:00:00 | ☾      | 20°46'00" ♀ | 09°42'29"    | -05°07'19" | 12°32'00"  | 0.003  |
| 01/01/2013 | 00:00:00 | ♁      | 00°38'22" ♁ | -24°14'58" ♁ | -00°48'54" | 01°32'35"  | 1.400  |
| 01/01/2013 | 00:00:00 | ♀      | 19°45'43" ♀ | -22°20'41"   | 00°41'54"  | 01°15'06"  | 1.551  |
| 01/01/2013 | 00:00:00 | ♂      | 04°40'47" ♁ | -20°12'29"   | -01°09'04" | 00°47'08"  | 2.225  |
| 01/01/2013 | 00:00:00 | ♃      | 07°46'23" ♁ | 20°54'19"    | -00°42'24" | -00°05'39" | 4.210  |
| 01/01/2013 | 00:00:00 | ♄      | 09°32'39" ♁ | -12°26'55"   | 02°20'20"  | 00°04'38"  | 10.228 |
| 01/01/2013 | 00:00:00 | ♅      | 04°45'38" ♁ | 01°14'37"    | -00°42'20" | 00°00'56"  | 20.136 |
| 01/01/2013 | 00:00:00 | ♆      | 01°04'15" ♁ | -11°39'43"   | -00°36'34" | 00°01'36"  | 30.609 |
| 01/01/2013 | 00:00:00 | ♇      | 09°19'19" ♁ | -19°47'20"   | 03°19'38"  | 00°02'07"  | 33.341 |
| 01/01/2013 | 00:00:00 | ♈      | 25°00'21" ♁ | -19°00'54"   | 00°00'00"  | -00°07'59" | 0.002  |
| 01/01/2013 | 00:00:00 | ♉      | 06°02'24" ♁ | -04°26'15"   | 05°13'11"  | 00°02'34"  | 17.922 |
| 01/01/2013 | 00:00:00 | ♊      | 12°17'11" ♁ | 20°37'29"    | -01°39'09" | 00°06'39"  | 0.003  |
| 01/01/2013 | 00:00:00 | ♋      | 25°00'21" ♁ | -19°00'54"   | 00°00'00"  | -00°07'59" | 0.002  |
| 01/01/2013 | 00:00:00 | ♌      | 28°27'59" ♁ | 20°35'24"    | -02°50'13" | 04°38'40"  | 0.003  |
| 01/01/2013 | 00:00:00 | ♍      | 21°37'22" ♁ | -03°46'02"   | -13°07'51" | -00°00'05" | 96.313 |
| 01/01/2013 | 00:00:00 | ♎      | 22°47'26" ♁ | 06°49'25"    | -12°00'55" | -00°00'23" | 86.040 |

Ephemerides year 2013

|                     |   |             |            |             |            |        |
|---------------------|---|-------------|------------|-------------|------------|--------|
| 02/01/2013 00:00:00 | ☉ | 11°44'56" ♍ | -22°55'00" | -00°00'00"  | 01°01'08"  | 0.983  |
| 02/01/2013 00:00:00 | ☾ | 03°23'59" ♍ | 05°31'01"  | -05°04'48"  | 12°44'12"  | 0.003  |
| 02/01/2013 00:00:00 | ♀ | 02°11'07" ♍ | -24°20'05" | 0-00°55'01" | 01°32'55"  | 1.406  |
| 02/01/2013 00:00:00 | ♀ | 21°00'49" ♍ | -22°28'33" | 00°39'25"   | 01°15'07"  | 1.554  |
| 02/01/2013 00:00:00 | ♂ | 05°27'56" ♍ | -20°00'54" | -01°08'57"  | 00°47'09"  | 2.227  |
| 02/01/2013 00:00:00 | ♃ | 07°40'48" ♍ | 20°53'38"  | -00°42'11"  | -00°05'30" | 4.219  |
| 02/01/2013 00:00:00 | ♄ | 09°37'15" ♍ | -12°28'11" | 02°20'31"   | 00°04'34"  | 10.213 |
| 02/01/2013 00:00:00 | ♅ | 04°46'37" ♍ | 01°15'03"  | -00°42'17"  | 00°00'59"  | 20.153 |
| 02/01/2013 00:00:00 | ♆ | 01°05'52" ♍ | -11°39'08" | -00°36'34"  | 00°01'37"  | 30.622 |
| 02/01/2013 00:00:00 | ♇ | 09°21'26" ♍ | -19°47'17" | 03°19'32"   | 00°02'07"  | 33.341 |
| 02/01/2013 00:00:00 | ♈ | 24°53'04" ♍ | -18°59'09" | 00°00'00"   | -00°06'27" | 0.002  |
| 02/01/2013 00:00:00 | ♉ | 06°05'00" ♍ | -04°25'35" | 05°12'53"   | 00°02'36"  | 17.937 |
| 02/01/2013 00:00:00 | ♊ | 12°23'50" ♍ | 20°37'31"  | -01°40'00"  | 00°06'39"  | 0.003  |
| 02/01/2013 00:00:00 | ♋ | 24°53'04" ♍ | -18°59'09" | 00°00'00"   | -00°06'27" | 0.002  |
| 02/01/2013 00:00:00 | ♌ | 02°54'06" ♍ | 20°14'09"  | -03°10'07"  | 04°08'43"  | 0.003  |
| 02/01/2013 00:00:00 | ♍ | 21°37'17" ♍ | -03°45'55" | -13°07'40"  | -00°00'04" | 96.329 |
| 02/01/2013 00:00:00 | ♎ | 22°47'03" ♍ | 06°49'26"  | -12°00'49"  | -00°00'22" | 86.052 |
| 03/01/2013 00:00:00 | ☉ | 12°46'04" ♍ | -22°49'23" | -00°00'00"  | 01°01'08"  | 0.983  |
| 03/01/2013 00:00:00 | ☾ | 16°15'01" ♍ | 01°00'46"  | -04°47'03"  | 12°58'10"  | 0.003  |

Ephemerides year 2013

|                     |    |             |            |             |            |        |
|---------------------|----|-------------|------------|-------------|------------|--------|
| 03/01/2013 00:00:00 | ♀  | 03°44'12" ♍ | -24°23'54" | o-01°00'56" | 01°33'15"  | 1.411  |
| 03/01/2013 00:00:00 | ♀  | 22°15'57" ♈ | -22°35'45" | 00°36'55"   | 01°15'07"  | 1.558  |
| 03/01/2013 00:00:00 | ♂  | 06°15'06" ♁ | -19°49'05" | -01°08'49"  | 00°47'10"  | 2.230  |
| 03/01/2013 00:00:00 | ♃  | 07°35'22" ♋ | 20°52'58"  | -00°41'58"  | -00°05'20" | 4.229  |
| 03/01/2013 00:00:00 | ♃  | 09°41'47" ♎ | -12°29'25" | 02°20'43"   | 00°04'29"  | 10.198 |
| 03/01/2013 00:00:00 | ♃  | 04°47'38" ♏ | 01°15'29"  | -00°42'15"  | 00°01'02"  | 20.170 |
| 03/01/2013 00:00:00 | ♃  | 01°07'31" ♏ | -11°38'33" | -00°36'33"  | 00°01'39"  | 30.635 |
| 03/01/2013 00:00:00 | ♃  | 09°23'34" ♍ | -19°47'14" | 03°19'27"   | 00°02'07"  | 33.341 |
| 03/01/2013 00:00:00 | ♎  | 24°47'37" ♎ | -18°57'50" | 00°00'00"   | -00°04'22" | 0.002  |
| 03/01/2013 00:00:00 | ♎  | 06°07'38" ♏ | -04°24'54" | 05°12'35"   | 00°02'39"  | 17.952 |
| 03/01/2013 00:00:00 | ♎  | 12°30'29" ♋ | 20°37'32"  | -01°40'50"  | 00°06'39"  | 0.003  |
| 03/01/2013 00:00:00 | T♎ | 24°47'37" ♎ | -18°57'50" | 00°00'00"   | -00°04'22" | 0.002  |
| 03/01/2013 00:00:00 | T♎ | 06°36'17" ♎ | 19°50'40"  | -03°25'51"  | 03°11'23"  | 0.003  |
| 03/01/2013 00:00:00 | X  | 21°37'13" ♏ | -03°45'47" | -13°07'30"  | -00°00'04" | 96.346 |
| 03/01/2013 00:00:00 | Y  | 22°46'41" ♏ | 06°49'27"  | -12°00'42"  | -00°00'21" | 86.064 |
| 04/01/2013 00:00:00 | ♃  | 13°47'13" ♍ | -22°43'20" | -00°00'00"  | 01°01'08"  | 0.983  |
| 04/01/2013 00:00:00 | ♃  | 29°21'01" ♎ | -03°37'36" | -04°14'05"  | 13°14'10"  | 0.003  |
| 04/01/2013 00:00:00 | ♀  | 05°17'38" ♍ | -24°26'24" | o-01°06'39" | 01°33'36"  | 1.415  |
| 04/01/2013 00:00:00 | ♀  | 23°31'05" ♈ | -22°42'16" | 00°34'24"   | 01°15'08"  | 1.562  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 04/01/2013 00:00:00 | ♂  | 07°02'17" ♊ | -19°37'04" | -01°08'41" | 00°47'12"  | 2.232  |
| 04/01/2013 00:00:00 | ♃  | 07°30'07" ♉ | 20°52'20"  | -00°41'44" | -00°05'10" | 4.238  |
| 04/01/2013 00:00:00 | ♅  | 09°46'14" ♋ | -12°30'37" | 02°20'54"  | 00°04'24"  | 10.183 |
| 04/01/2013 00:00:00 | ♁  | 04°48'42" ♈ | 01°15'57"  | -00°42'13" | 00°01'05"  | 20.187 |
| 04/01/2013 00:00:00 | ♆  | 01°09'11" ♉ | -11°37'57" | -00°36'33" | 00°01'40"  | 30.648 |
| 04/01/2013 00:00:00 | ♄  | 09°25'41" ♈ | -19°47'10" | 03°19'21"  | 00°02'07"  | 33.340 |
| 04/01/2013 00:00:00 | ♁  | 24°44'22" ♋ | -18°57'02" | 00°00'00"  | -00°02'09" | 0.002  |
| 04/01/2013 00:00:00 | ♅  | 06°10'19" ♉ | -04°24'11" | 05°12'18"  | 00°02'42"  | 17.967 |
| 04/01/2013 00:00:00 | ♁  | 12°37'08" ♉ | 20°37'33"  | -01°41'40" | 00°06'39"  | 0.003  |
| 04/01/2013 00:00:00 | T♁ | 24°44'22" ♋ | -18°57'02" | 00°00'00"  | -00°02'09" | 0.002  |
| 04/01/2013 00:00:00 | T♄ | 09°09'34" ♈ | 19°31'28"  | -03°36'11" | 01°52'15"  | 0.003  |
| 04/01/2013 00:00:00 | X  | 21°37'09" ♈ | -03°45'39" | -13°07'20" | -00°00'03" | 96.363 |
| 04/01/2013 00:00:00 | Y  | 22°46'19" ♈ | 06°49'28"  | -12°00'36" | -00°00'21" | 86.076 |
| 05/01/2013 00:00:00 | ♁  | 14°48'22" ♈ | -22°36'49" | -00°00'00" | 01°01'09"  | 0.983  |
| 05/01/2013 00:00:00 | ♃  | 12°44'05" ♉ | -08°12'04" | -03°26'42" | 13°32'16"  | 0.003  |
| 05/01/2013 00:00:00 | ♄  | 06°51'25" ♈ | -24°27'35" | -01°12'11" | 01°33'58"  | 1.420  |
| 05/01/2013 00:00:00 | ♀  | 24°46'14" ♈ | -22°48'06" | 00°31'52"  | 01°15'08"  | 1.565  |
| 05/01/2013 00:00:00 | ♂  | 07°49'30" ♊ | -19°24'49" | -01°08'33" | 00°47'13"  | 2.234  |
| 05/01/2013 00:00:00 | ♃  | 07°25'01" ♉ | 20°51'43"  | -00°41'31" | -00°05'00" | 4.248  |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 05/01/2013 00:00:00 | ♃ | 09°50'37" ♎ | -12°31'48" | 02°21'06"  | 00°04'19"  | 10.168 |
| 05/01/2013 00:00:00 | ♃ | 04°49'50" ♏ | 01°16'26"  | -00°42'10" | 00°01'08"  | 20.204 |
| 05/01/2013 00:00:00 | ♃ | 01°10'52" ♏ | -11°37'21" | -00°36'33" | 00°01'42"  | 30.660 |
| 05/01/2013 00:00:00 | ♃ | 09°27'49" ♏ | -19°47'07" | 03°19'16"  | 00°02'07"  | 33.339 |
| 05/01/2013 00:00:00 | ♃ | 24°43'12" ♎ | -18°56'45" | 00°00'00"  | -00°00'15" | 0.002  |
| 05/01/2013 00:00:00 | ♃ | 06°13'02" ♏ | -04°23'28" | 05°12'01"  | 00°02'44"  | 17.981 |
| 05/01/2013 00:00:00 | ♃ | 12°43'47" ♏ | 20°37'34"  | -01°42'30" | 00°06'39"  | 0.003  |
| 05/01/2013 00:00:00 | ♃ | 24°43'12" ♎ | -18°56'45" | 00°00'00"  | -00°00'15" | 0.002  |
| 05/01/2013 00:00:00 | ♃ | 10°17'00" ♏ | 19°22'17"  | -03°40'36" | 00°21'58"  | 0.003  |
| 05/01/2013 00:00:00 | X | 21°37'06" ♏ | -03°45'30" | -13°07'09" | -00°00'02" | 96.379 |
| 05/01/2013 00:00:00 | Y | 22°45'58" ♏ | 06°49'30"  | -12°00'29" | -00°00'20" | 86.089 |
| 06/01/2013 00:00:00 | ♃ | 15°49'32" ♏ | -22°29'52" | -00°00'00" | 01°01'09"  | 0.983  |
| 06/01/2013 00:00:00 | ♃ | 26°26'10" ♏ | -12°28'26" | -02°26'30" | 13°52'05"  | 0.002  |
| 06/01/2013 00:00:00 | ♃ | 08°25'35" ♏ | -24°27'25" | -01°17'29" | 01°34'20"  | 1.423  |
| 06/01/2013 00:00:00 | ♃ | 26°01'23" ♏ | -22°53'14" | 00°29'20"  | 01°15'09"  | 1.569  |
| 06/01/2013 00:00:00 | ♃ | 08°36'44" ♏ | -19°12'22" | -01°08'24" | 00°47'14"  | 2.237  |
| 06/01/2013 00:00:00 | ♃ | 07°20'06" ♏ | 20°51'08"  | -00°41'18" | -00°04'49" | 4.259  |
| 06/01/2013 00:00:00 | ♃ | 09°54'54" ♎ | -12°32'57" | 02°21'18"  | 00°04'15"  | 10.153 |
| 06/01/2013 00:00:00 | ♃ | 04°51'00" ♏ | 01°16'56"  | -00°42'08" | 00°01'11"  | 20.221 |

Ephemerides year 2013

|                     |    |           |   |            |            |            |        |
|---------------------|----|-----------|---|------------|------------|------------|--------|
| 06/01/2013 00:00:00 | ♁  | 01°12'35" | ♈ | -11°36'44" | -00°36'32" | 00°01'43"  | 30.673 |
| 06/01/2013 00:00:00 | ♁  | 09°29'56" | ♈ | -19°47'03" | 03°19'11"  | 00°02'07"  | 33.338 |
| 06/01/2013 00:00:00 | ♁  | 24°43'36" | ♎ | -18°56'51" | 00°00'00"  | 00°00'53"  | 0.002  |
| 06/01/2013 00:00:00 | ♁  | 06°15'48" | ♈ | -04°22'43" | 05°11'44"  | 00°02'47"  | 17.995 |
| 06/01/2013 00:00:00 | ♁  | 12°50'27" | ♁ | 20°37'34"  | -01°43'20" | 00°06'39"  | 0.003  |
| 06/01/2013 00:00:00 | T♁ | 24°43'36" | ♎ | -18°56'51" | 00°00'00"  | 00°00'53"  | 0.002  |
| 06/01/2013 00:00:00 | T♁ | 09°55'30" | ♁ | 19°25'17"  | -03°39'11" | -01°02'15" | 0.003  |
| 06/01/2013 00:00:00 | X  | 21°37'03" | ♁ | -03°45'21" | -13°06'59" | -00°00'02" | 96.396 |
| 06/01/2013 00:00:00 | Y  | 22°45'37" | ♁ | 06°49'32"  | -12°00'22" | -00°00'20" | 86.102 |
| 07/01/2013 00:00:00 | ♁  | 16°50'41" | ♈ | -22°22'27" | 00°00'00"  | 01°01'09"  | 0.983  |
| 07/01/2013 00:00:00 | ♁  | 10°28'31" | ♎ | -16°10'00" | -01°16'09" | 14°12'37"  | 0.002  |
| 07/01/2013 00:00:00 | ♁  | 10°00'06" | ♈ | -24°25'53" | -01°22'35" | 01°34'43"  | 1.426  |
| 07/01/2013 00:00:00 | ♁  | 27°16'33" | ♈ | -22°57'41" | 00°26'46"  | 01°15'10"  | 1.572  |
| 07/01/2013 00:00:00 | ♁  | 09°23'59" | ♁ | -18°59'42" | -01°08'15" | 00°47'15"  | 2.239  |
| 07/01/2013 00:00:00 | ♁  | 07°15'22" | ♁ | 20°50'34"  | -00°41'04" | -00°04'39" | 4.269  |
| 07/01/2013 00:00:00 | ♁  | 09°59'07" | ♎ | -12°34'05" | 02°21'30"  | 00°04'10"  | 10.138 |
| 07/01/2013 00:00:00 | ♁  | 04°52'13" | ♁ | 01°17'27"  | -00°42'06" | 00°01'14"  | 20.238 |
| 07/01/2013 00:00:00 | ♁  | 01°14'19" | ♈ | -11°36'06" | -00°36'32" | 00°01'44"  | 30.685 |
| 07/01/2013 00:00:00 | ♁  | 09°32'03" | ♈ | -19°46'59" | 03°19'06"  | 00°02'06"  | 33.337 |



Ephemerides year 2013

|                     |    |             |            |             |            |        |
|---------------------|----|-------------|------------|-------------|------------|--------|
| 07/01/2013 00:00:00 | ♏  | 24°44'38" ♎ | -18°57'06" | 00°00'00"   | 00°01'00"  | 0.002  |
| 07/01/2013 00:00:00 | ♋  | 06°18'37" ♋ | -04°21'58" | 05°11'27"   | 00°02'49"  | 18.010 |
| 07/01/2013 00:00:00 | ♌  | 12°57'06" ♌ | 20°37'35"  | -01°44'10"  | 00°06'39"  | 0.003  |
| 07/01/2013 00:00:00 | T♏ | 24°44'38" ♎ | -18°57'06" | 00°00'00"   | 00°01'00"  | 0.002  |
| 07/01/2013 00:00:00 | T♌ | 08°21'18" ♌ | 19°37'51"  | -03°32'54"  | -02°00'21" | 0.003  |
| 07/01/2013 00:00:00 | X  | 21°37'02" ♏ | -03°45'12" | -13°06'49"  | -00°00'01" | 96.413 |
| 07/01/2013 00:00:00 | Y  | 22°45'17" ♏ | 06°49'34"  | -12°00'15"  | -00°00'19" | 86.115 |
| 08/01/2013 00:00:00 | ♁  | 17°51'51" ♏ | -22°14'37" | 00°00'00"   | 01°01'09"  | 0.983  |
| 08/01/2013 00:00:00 | ♃  | 24°51'06" ♎ | -18°58'09" | 00°00'31"   | 14°32'12"  | 0.002  |
| 08/01/2013 00:00:00 | ♎  | 11°35'02" ♏ | -24°22'58" | 0-01°27'26" | 01°35'07"  | 1.428  |
| 08/01/2013 00:00:00 | ♍  | 28°31'43" ♏ | -23°01'26" | 00°24'13"   | 01°15'10"  | 1.576  |
| 08/01/2013 00:00:00 | ♊  | 10°11'16" ♏ | -18°46'50" | -01°08'05"  | 00°47'17"  | 2.241  |
| 08/01/2013 00:00:00 | ♉  | 07°10'48" ♏ | 20°50'03"  | -00°40'50"  | -00°04'28" | 4.279  |
| 08/01/2013 00:00:00 | ♈  | 10°03'15" ♎ | -12°35'10" | 02°21'42"   | 00°04'05"  | 10.123 |
| 08/01/2013 00:00:00 | ♏  | 04°53'30" ♏ | 01°17'59"  | -00°42'03"  | 00°01'17"  | 20.255 |
| 08/01/2013 00:00:00 | ♎  | 01°16'05" ♋ | -11°35'29" | -00°36'32"  | 00°01'46"  | 30.697 |
| 08/01/2013 00:00:00 | ♌  | 09°34'10" ♏ | -19°46'55" | 03°19'01"   | 00°02'06"  | 33.335 |
| 08/01/2013 00:00:00 | ♏  | 24°45'14" ♎ | -18°57'15" | 00°00'00"   | -00°00'00" | 0.002  |
| 08/01/2013 00:00:00 | ♋  | 06°21'28" ♋ | -04°21'11" | 05°11'11"   | 00°02'52"  | 18.024 |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 08/01/2013 00:00:00 | ☾ | 13°03'45" ♀ | 20°37'35"  | -01°45'00" | 00°06'39"  | 0.003  |
| 08/01/2013 00:00:00 | ♄ | 24°45'14" ♀ | -18°57'15" | 00°00'00"  | -00°00'00" | 0.002  |
| 08/01/2013 00:00:00 | ♄ | 06°07'28" ♀ | 19°54'07"  | -03°23'44" | -02°21'05" | 0.003  |
| 08/01/2013 00:00:00 | X | 21°37'01" ♀ | -03°45'03" | -13°06'38" | -00°00'00" | 96.430 |
| 08/01/2013 00:00:00 | Y | 22°44'58" ♀ | 06°49'36"  | -12°00'08" | -00°00'18" | 86.128 |
| 09/01/2013 00:00:00 | ☉ | 18°53'01" ♀ | -22°06'20" | 00°00'00"  | 01°01'10"  | 0.983  |
| 09/01/2013 00:00:00 | ☾ | 09°31'49" ♀ | -20°34'51" | 01°18'37"  | 14°48'28"  | 0.002  |
| 09/01/2013 00:00:00 | ♀ | 13°10'22" ♀ | -24°18'39" | 01°32'03"  | 01°35'32"  | 1.430  |
| 09/01/2013 00:00:00 | ♀ | 29°46'54" ♀ | -23°04'29" | 00°21'39"  | 01°15'11"  | 1.579  |
| 09/01/2013 00:00:00 | ♂ | 10°58'34" ♀ | -18°33'45" | -01°07'55" | 00°47'18"  | 2.244  |
| 09/01/2013 00:00:00 | ♂ | 07°06'25" ♀ | 20°49'33"  | -00°40'37" | -00°04'17" | 4.290  |
| 09/01/2013 00:00:00 | ♂ | 10°07'18" ♀ | -12°36'14" | 02°21'55"  | 00°04'00"  | 10.107 |
| 09/01/2013 00:00:00 | ♂ | 04°54'49" ♀ | 01°18'33"  | -00°42'01" | 00°01'20"  | 20.272 |
| 09/01/2013 00:00:00 | ♂ | 01°17'52" ♀ | -11°34'50" | -00°36'32" | 00°01'47"  | 30.709 |
| 09/01/2013 00:00:00 | ♂ | 09°36'16" ♀ | -19°46'51" | 03°18'56"  | 00°02'06"  | 33.333 |
| 09/01/2013 00:00:00 | ♂ | 24°44'18" ♀ | -18°57'01" | 00°00'00"  | -00°01'59" | 0.002  |
| 09/01/2013 00:00:00 | ♂ | 06°24'21" ♀ | -04°20'23" | 05°10'55"  | 00°02'54"  | 18.037 |
| 09/01/2013 00:00:00 | ☾ | 13°10'24" ♀ | 20°37'34"  | -01°45'50" | 00°06'39"  | 0.003  |
| 09/01/2013 00:00:00 | ♄ | 24°44'18" ♀ | -18°57'01" | 00°00'00"  | -00°01'59" | 0.002  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 09/01/2013 00:00:00 | T♄ | 03°49'14" ♉ | 20°08'57"  | -03°13'58" | -02°11'55" | 0.003  |
| 09/01/2013 00:00:00 | X  | 21°37'01" ♀ | -03°44'54" | -13°06'28" | 00°00'00"  | 96.446 |
| 09/01/2013 00:00:00 | Y  | 22°44'40" ♉ | 06°49'38"  | -12°00'01" | -00°00'18" | 86.141 |
| 10/01/2013 00:00:00 | ☉  | 19°54'11" ♉ | -21°57'37" | 00°00'00"  | 01°01'09"  | 0.983  |
| 10/01/2013 00:00:00 | ☾  | 24°26'04" ♀ | -20°46'52" | 02°32'23"  | 14°58'50"  | 0.002  |
| 10/01/2013 00:00:00 | ♁  | 14°46'07" ♉ | -24°12'55" | 01°36'26"  | 01°35'57"  | 1.432  |
| 10/01/2013 00:00:00 | ♂  | 01°02'05" ♉ | -23°06'50" | 00°19'04"  | 01°15'11"  | 1.582  |
| 10/01/2013 00:00:00 | ♂  | 11°45'53" ♁ | -18°20'29" | -01°07'44" | 00°47'19"  | 2.246  |
| 10/01/2013 00:00:00 | ♃  | 07°02'13" ♉ | 20°49'04"  | -00°40'23" | -00°04'06" | 4.301  |
| 10/01/2013 00:00:00 | ♄  | 10°11'15" ♉ | -12°37'16" | 02°22'07"  | 00°03'55"  | 10.092 |
| 10/01/2013 00:00:00 | ♅  | 04°56'11" ♀ | 01°19'08"  | -00°41'59" | 00°01'23"  | 20.289 |
| 10/01/2013 00:00:00 | ♆  | 01°19'40" ♀ | -11°34'11" | -00°36'31" | 00°01'49"  | 30.721 |
| 10/01/2013 00:00:00 | ♇  | 09°38'23" ♉ | -19°46'47" | 03°18'51"  | 00°02'06"  | 33.331 |
| 10/01/2013 00:00:00 | ♈  | 24°41'04" ♉ | -18°56'14" | 00°00'00"  | -00°04'31" | 0.002  |
| 10/01/2013 00:00:00 | ♉  | 06°27'17" ♀ | -04°19'34" | 05°10'39"  | 00°02'56"  | 18.051 |
| 10/01/2013 00:00:00 | ♊  | 13°17'04" ♀ | 20°37'34"  | -01°46'40" | 00°06'39"  | 0.003  |
| 10/01/2013 00:00:00 | T♈ | 24°41'04" ♉ | -18°56'14" | 00°00'00"  | -00°04'31" | 0.002  |
| 10/01/2013 00:00:00 | T♄ | 01°46'33" ♉ | 20°20'18"  | -03°05'09" | -01°53'52" | 0.003  |
| 10/01/2013 00:00:00 | X  | 21°37'01" ♀ | -03°44'44" | -13°06'18" | 00°00'00"  | 96.463 |

Ephemerides year 2013

|                     |    |              |            |             |            |        |
|---------------------|----|--------------|------------|-------------|------------|--------|
| 10/01/2013 00:00:00 | Y  | 22°44'22" ♃r | 06°49'41"  | -11°59'54"  | -00°00'17" | 86.154 |
| 11/01/2013 00:00:00 | ☉  | 20°55'21" ♎  | -21°48'28" | 00°00'00"   | 01°01'09"  | 0.983  |
| 11/01/2013 00:00:00 | ☾  | 09°26'45" ♎  | -19°30'30" | 03°35'59"   | 15°01'00"  | 0.002  |
| 11/01/2013 00:00:00 | ♀  | 16°22'17" ♎  | -24°05'45" | 0-01°40'32" | 01°36'24"  | 1.433  |
| 11/01/2013 00:00:00 | ♀  | 02°17'17" ♎  | -23°08'28" | 00°16'29"   | 01°15'11"  | 1.586  |
| 11/01/2013 00:00:00 | ♂  | 12°33'13" ♁  | -18°07'00" | -01°07'33"  | 00°47'20"  | 2.248  |
| 11/01/2013 00:00:00 | ♃  | 06°58'12" ♁r | 20°48'38"  | -00°40'09"  | -00°03'54" | 4.313  |
| 11/01/2013 00:00:00 | ♅  | 10°15'08" ♎  | -12°38'17" | 02°22'20"   | 00°03'49"  | 10.076 |
| 11/01/2013 00:00:00 | ♁  | 04°57'36" ♀  | 01°19'43"  | -00°41'56"  | 00°01'26"  | 20.305 |
| 11/01/2013 00:00:00 | ♃  | 01°21'30" ♁  | -11°33'32" | -00°36'31"  | 00°01'50"  | 30.732 |
| 11/01/2013 00:00:00 | ♁  | 09°40'29" ♎  | -19°46'43" | 03°18'46"   | 00°02'05"  | 33.328 |
| 11/01/2013 00:00:00 | ♁  | 24°35'15" ♎r | -18°54'49" | 00°00'00"   | -00°07'04" | 0.002  |
| 11/01/2013 00:00:00 | ♃  | 06°30'15" ♁  | -04°18'43" | 05°10'23"   | 00°02'59"  | 18.064 |
| 11/01/2013 00:00:00 | ♁  | 13°23'43" ♁  | 20°37'33"  | -01°47'29"  | 00°06'39"  | 0.003  |
| 11/01/2013 00:00:00 | T♁ | 24°35'15" ♎r | -18°54'49" | 00°00'00"   | -00°07'04" | 0.002  |
| 11/01/2013 00:00:00 | T♃ | 29°57'41" ♁r | 20°28'48"  | -02°57'20"  | -01°46'51" | 0.003  |
| 11/01/2013 00:00:00 | X  | 21°37'02" ♀  | -03°44'34" | -13°06'07"  | 00°00'01"  | 96.480 |
| 11/01/2013 00:00:00 | Y  | 22°44'05" ♃r | 06°49'44"  | -11°59'47"  | -00°00'16" | 86.168 |
| 12/01/2013 00:00:00 | ☉  | 21°56'31" ♎  | -21°38'54" | 00°00'00"   | 01°01'09"  | 0.984  |

Ephemerides year 2013

|                     |   |             |            |             |            |        |
|---------------------|---|-------------|------------|-------------|------------|--------|
| 12/01/2013 00:00:00 | ♃ | 24°24'56" ♁ | -16°53'33" | 04°24'26"   | 14°53'46"  | 0.002  |
| 12/01/2013 00:00:00 | ♆ | 17°58'55" ♁ | -23°57'08" | ♁-01°44'23" | 01°36'51"  | 1.433  |
| 12/01/2013 00:00:00 | ♀ | 03°32'28" ♁ | -23°09'23" | 00°13'55"   | 01°15'11"  | 1.589  |
| 12/01/2013 00:00:00 | ♂ | 13°20'33" ♁ | -17°53'20" | -01°07'22"  | 00°47'21"  | 2.251  |
| 12/01/2013 00:00:00 | ♃ | 06°54'23" ♁ | 20°48'13"  | -00°39'55"  | -00°03'43" | 4.324  |
| 12/01/2013 00:00:00 | ♄ | 10°18'55" ♁ | -12°39'15" | 02°22'32"   | 00°03'44"  | 10.060 |
| 12/01/2013 00:00:00 | ♅ | 04°59'04" ♁ | 01°20'20"  | -00°41'54"  | 00°01'29"  | 20.322 |
| 12/01/2013 00:00:00 | ♆ | 01°23'21" ♁ | -11°32'52" | -00°36'31"  | 00°01'51"  | 30.743 |
| 12/01/2013 00:00:00 | ♁ | 09°42'35" ♁ | -19°46'38" | 03°18'42"   | 00°02'05"  | 33.325 |
| 12/01/2013 00:00:00 | ♁ | 24°27'08" ♁ | -18°52'50" | 00°00'00"   | -00°09'02" | 0.002  |
| 12/01/2013 00:00:00 | ♂ | 06°33'15" ♁ | -04°17'52" | 05°10'07"   | 00°03'01"  | 18.078 |
| 12/01/2013 00:00:00 | ♁ | 13°30'23" ♁ | 20°37'32"  | -01°48'19"  | 00°06'39"  | 0.003  |
| 12/01/2013 00:00:00 | ♁ | 24°27'08" ♁ | -18°52'50" | 00°00'00"   | -00°09'02" | 0.002  |
| 12/01/2013 00:00:00 | ♁ | 28°05'59" ♁ | 20°35'54"  | -02°49'26"  | -01°59'59" | 0.003  |
| 12/01/2013 00:00:00 | X | 21°37'04" ♁ | -03°44'23" | -13°05'57"  | 00°00'02"  | 96.497 |
| 12/01/2013 00:00:00 | Y | 22°43'48" ♁ | 06°49'47"  | -11°59'39"  | -00°00'16" | 86.182 |
| 13/01/2013 00:00:00 | ♁ | 22°57'40" ♁ | -21°28'54" | 00°00'00"   | 01°01'08"  | 0.984  |
| 13/01/2013 00:00:00 | ♃ | 09°11'17" ♁ | -13°13'03" | 04°54'25"   | 14°37'31"  | 0.002  |
| 13/01/2013 00:00:00 | ♆ | 19°36'00" ♁ | -23°47'04" | ♁-01°47'57" | 01°37'19"  | 1.432  |

Ephemerides year 2013

|                     |    |             |            |             |            |        |
|---------------------|----|-------------|------------|-------------|------------|--------|
| 13/01/2013 00:00:00 | ♀  | 04°47'40" ♍ | -23°09'36" | 00°11'20"   | 01°15'11"  | 1.592  |
| 13/01/2013 00:00:00 | ♂  | 14°07'55" ♍ | -17°39'28" | -01°07'10"  | 00°47'21"  | 2.253  |
| 13/01/2013 00:00:00 | ♃  | 06°50'45" ♉ | 20°47'51"  | -00°39'42"  | -00°03'32" | 4.336  |
| 13/01/2013 00:00:00 | ♅  | 10°22'37" ♌ | -12°40'12" | 02°22'45"   | 00°03'39"  | 10.044 |
| 13/01/2013 00:00:00 | ♁  | 05°00'35" ♋ | 01°20'58"  | -00°41'52"  | 00°01'32"  | 20.338 |
| 13/01/2013 00:00:00 | ♆  | 01°25'13" ♌ | -11°32'12" | -00°36'31"  | 00°01'52"  | 30.754 |
| 13/01/2013 00:00:00 | ♁  | 09°44'40" ♍ | -19°46'34" | 03°18'37"   | 00°02'05"  | 33.322 |
| 13/01/2013 00:00:00 | ♄  | 24°17'31" ♌ | -18°50'29" | 00°00'00"   | -00°09'59" | 0.002  |
| 13/01/2013 00:00:00 | ♅  | 06°36'17" ♌ | -04°17'00" | 05°09'52"   | 00°03'03"  | 18.091 |
| 13/01/2013 00:00:00 | ♁  | 13°37'02" ♉ | 20°37'31"  | -01°49'09"  | 00°06'39"  | 0.003  |
| 13/01/2013 00:00:00 | T♄ | 24°17'31" ♌ | -18°50'29" | 00°00'00"   | -00°09'59" | 0.002  |
| 13/01/2013 00:00:00 | T♁ | 25°52'04" ♉ | 20°42'23"  | -02°39'57"  | -02°29'40" | 0.003  |
| 13/01/2013 00:00:00 | X  | 21°37'07" ♋ | -03°44'13" | -13°05'47"  | 00°00'02"  | 96.514 |
| 13/01/2013 00:00:00 | Y  | 22°43'32" ♉ | 06°49'51"  | -11°59'32"  | -00°00'15" | 86.195 |
| 14/01/2013 00:00:00 | ☉  | 23°58'49" ♍ | -21°18'30" | 00°00'00"   | 01°01'08"  | 0.984  |
| 14/01/2013 00:00:00 | ☾  | 23°37'37" ♍ | -08°50'29" | 05°04'46"   | 14°14'09"  | 0.002  |
| 14/01/2013 00:00:00 | ♁  | 21°13'34" ♍ | -23°35'32" | 0-01°51'13" | 01°37'48"  | 1.432  |
| 14/01/2013 00:00:00 | ♀  | 06°02'52" ♍ | -23°09'06" | 00°08'45"   | 01°15'11"  | 1.595  |
| 14/01/2013 00:00:00 | ♂  | 14°55'17" ♍ | -17°25'26" | -01°06'58"  | 00°47'22"  | 2.255  |

Ephemerides year 2013

|                     |   |              |            |            |            |        |
|---------------------|---|--------------|------------|------------|------------|--------|
| 14/01/2013 00:00:00 | ♃ | 06°47'19" ♀r | 20°47'30"  | -00°39'28" | -00°03'20" | 4.348  |
| 14/01/2013 00:00:00 | ♅ | 10°26'14" ♀  | -12°41'07" | 02°22'58"  | 00°03'33"  | 10.028 |
| 14/01/2013 00:00:00 | ♁ | 05°02'08" ♀  | 01°21'37"  | -00°41'50" | 00°01'34"  | 20.355 |
| 14/01/2013 00:00:00 | ♆ | 01°27'07" ♀  | -11°31'32" | -00°36'31" | 00°01'53"  | 30.765 |
| 14/01/2013 00:00:00 | ♁ | 09°46'45" ♀  | -19°46'29" | 03°18'33"  | 00°02'04"  | 33.318 |
| 14/01/2013 00:00:00 | ♁ | 24°07'33" ♀r | -18°48'02" | 00°00'00"  | -00°09'44" | 0.002  |
| 14/01/2013 00:00:00 | ♁ | 06°39'22" ♀  | -04°16'07" | 05°09'37"  | 00°03'05"  | 18.103 |
| 14/01/2013 00:00:00 | ♁ | 13°43'41" ♀  | 20°37'29"  | -01°49'58" | 00°06'39"  | 0.003  |
| 14/01/2013 00:00:00 | ♁ | 24°07'33" ♀r | -18°48'02" | 00°00'00"  | -00°09'44" | 0.002  |
| 14/01/2013 00:00:00 | ♁ | 23°05'48" ♀r | 20°47'38"  | -02°27'55" | -03°01'41" | 0.003  |
| 14/01/2013 00:00:00 | X | 21°37'10" ♀  | -03°44'02" | -13°05'36" | 00°00'03"  | 96.531 |
| 14/01/2013 00:00:00 | Y | 22°43'17" ♂r | 06°49'54"  | -11°59'25" | -00°00'15" | 86.210 |
| 15/01/2013 00:00:00 | ♁ | 24°59'57" ♀  | -21°07'42" | 00°00'00"  | 01°01'07"  | 0.984  |
| 15/01/2013 00:00:00 | ♁ | 07°38'12" ♀  | -04°06'58" | 04°56'17"  | 13°46'35"  | 0.003  |
| 15/01/2013 00:00:00 | ♁ | 22°51'37" ♀  | -23°22'31" | -01°54'11" | 01°38'17"  | 1.430  |
| 15/01/2013 00:00:00 | ♀ | 07°18'03" ♀  | -23°07'54" | 00°06'11"  | 01°15'11"  | 1.598  |
| 15/01/2013 00:00:00 | ♂ | 15°42'40" ♀  | -17°11'12" | -01°06'46" | 00°47'23"  | 2.257  |
| 15/01/2013 00:00:00 | ♃ | 06°44'04" ♀r | 20°47'11"  | -00°39'14" | -00°03'08" | 4.360  |
| 15/01/2013 00:00:00 | ♅ | 10°29'45" ♀  | -12°42'00" | 02°23'11"  | 00°03'28"  | 10.012 |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 15/01/2013 00:00:00 | ♃  | 05°03'45" ♀ | 01°22'18"  | -00°41'47" | 00°01'37"  | 20.371 |
| 15/01/2013 00:00:00 | ♃  | 01°29'01" ♀ | -11°30'51" | -00°36'30" | 00°01'54"  | 30.775 |
| 15/01/2013 00:00:00 | ♃  | 09°48'49" ♀ | -19°46'25" | 03°18'29"  | 00°02'04"  | 33.315 |
| 15/01/2013 00:00:00 | ♃  | 23°58'25" ♀ | -18°45'47" | 00°00'00"  | -00°08'21" | 0.002  |
| 15/01/2013 00:00:00 | ♃  | 06°42'29" ♀ | -04°15'13" | 05°09'22"  | 00°03'07"  | 18.116 |
| 15/01/2013 00:00:00 | ♃  | 13°50'21" ♀ | 20°37'27"  | -01°50'48" | 00°06'39"  | 0.003  |
| 15/01/2013 00:00:00 | T♃ | 23°58'25" ♀ | -18°45'47" | 00°00'00"  | -00°08'21" | 0.002  |
| 15/01/2013 00:00:00 | T♃ | 19°54'04" ♀ | 20°49'53"  | -02°13'35" | -03°17'45" | 0.003  |
| 15/01/2013 00:00:00 | X  | 21°37'13" ♀ | -03°43'51" | -13°05'26" | 00°00'04"  | 96.548 |
| 15/01/2013 00:00:00 | Y  | 22°43'02" ♀ | 06°49'58"  | -11°59'17" | -00°00'14" | 86.224 |
| 16/01/2013 00:00:00 | ♃  | 26°01'04" ♀ | -20°56'29" | 00°00'00"  | 01°01'07"  | 0.984  |
| 16/01/2013 00:00:00 | ♃  | 21°10'26" ♀ | 00°39'27"  | 04°31'13"  | 13°17'55"  | 0.003  |
| 16/01/2013 00:00:00 | ♃  | 24°30'10" ♀ | -23°08'00" | -01°56'50" | 01°38'48"  | 1.428  |
| 16/01/2013 00:00:00 | ♃  | 08°33'15" ♀ | -23°05'59" | 00°03'37"  | 01°15'11"  | 1.602  |
| 16/01/2013 00:00:00 | ♃  | 16°30'04" ♀ | -16°56'47" | -01°06'33" | 00°47'23"  | 2.260  |
| 16/01/2013 00:00:00 | ♃  | 06°41'02" ♀ | 20°46'54"  | -00°39'00" | -00°02'56" | 4.372  |
| 16/01/2013 00:00:00 | ♃  | 10°33'11" ♀ | -12°42'51" | 02°23'24"  | 00°03'22"  | 9.996  |
| 16/01/2013 00:00:00 | ♃  | 05°05'24" ♀ | 01°22'59"  | -00°41'45" | 00°01'40"  | 20.387 |
| 16/01/2013 00:00:00 | ♃  | 01°30'56" ♀ | -11°30'09" | -00°36'30" | 00°01'56"  | 30.786 |



Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 16/01/2013 00:00:00 | ♁ | 09°50'53" ♁ | -19°46'20" | 03°18'25"  | 00°02'03"  | 33.311 |
| 16/01/2013 00:00:00 | ♁ | 23°51'05" ♁ | -18°43'58" | 00°00'00"  | -00°06'12" | 0.002  |
| 16/01/2013 00:00:00 | ♁ | 06°45'37" ♁ | -04°14'17" | 05°09'07"  | 00°03'09"  | 18.128 |
| 16/01/2013 00:00:00 | ♁ | 13°57'00" ♁ | 20°37'25"  | -01°51'38" | 00°06'39"  | 0.003  |
| 16/01/2013 00:00:00 | ♁ | 23°51'05" ♁ | -18°43'58" | 00°00'00"  | -00°06'12" | 0.002  |
| 16/01/2013 00:00:00 | ♁ | 16°39'44" ♁ | 20°48'05"  | -01°58'33" | -03°05'59" | 0.003  |
| 16/01/2013 00:00:00 | X | 21°37'18" ♁ | -03°43'40" | -13°05'16" | 00°00'04"  | 96.564 |
| 16/01/2013 00:00:00 | Y | 22°42'48" ♁ | 06°50'02"  | -11°59'09" | -00°00'13" | 86.238 |
| 17/01/2013 00:00:00 | ♁ | 27°02'11" ♁ | -20°44'52" | 00°00'00"  | 01°01'06"  | 0.984  |
| 17/01/2013 00:00:00 | ♁ | 04°14'37" ♁ | 05°14'36"  | 03°52'34"  | 12°50'53"  | 0.003  |
| 17/01/2013 00:00:00 | ♁ | 26°09'13" ♁ | -22°52'00" | -01°59'10" | 01°39'19"  | 1.425  |
| 17/01/2013 00:00:00 | ♁ | 09°48'26" ♁ | -23°03'21" | 00°01'03"  | 01°15'11"  | 1.605  |
| 17/01/2013 00:00:00 | ♁ | 17°17'27" ♁ | -16°42'12" | -01°06'20" | 00°47'24"  | 2.262  |
| 17/01/2013 00:00:00 | ♁ | 06°38'11" ♁ | 20°46'39"  | -00°38'46" | -00°02'44" | 4.385  |
| 17/01/2013 00:00:00 | ♁ | 10°36'31" ♁ | -12°43'41" | 02°23'37"  | 00°03'17"  | 9.980  |
| 17/01/2013 00:00:00 | ♁ | 05°07'05" ♁ | 01°23'41"  | -00°41'43" | 00°01'43"  | 20.403 |
| 17/01/2013 00:00:00 | ♁ | 01°32'53" ♁ | -11°29'28" | -00°36'30" | 00°01'57"  | 30.796 |
| 17/01/2013 00:00:00 | ♁ | 09°52'56" ♁ | -19°46'15" | 03°18'21"  | 00°02'03"  | 33.306 |
| 17/01/2013 00:00:00 | ♁ | 23°46'06" ♁ | -18°42'44" | 00°00'00"  | -00°03'45" | 0.002  |

Ephemerides year 2013

|                     |    |              |            |            |            |        |
|---------------------|----|--------------|------------|------------|------------|--------|
| 17/01/2013 00:00:00 | ♄  | 06°48'48" ♈  | -04°13'21" | 05°08'53"  | 00°03'11"  | 18.140 |
| 17/01/2013 00:00:00 | ♁  | 14°03'39" ♉  | 20°37'23"  | -01°52'27" | 00°06'39"  | 0.003  |
| 17/01/2013 00:00:00 | ♁♁ | 23°46'06" ♎♁ | -18°42'44" | 00°00'00"  | -00°03'45" | 0.002  |
| 17/01/2013 00:00:00 | ♁♁ | 13°50'47" ♉♁ | 20°43'11"  | -01°45'05" | -02°28'34" | 0.003  |
| 17/01/2013 00:00:00 | X  | 21°37'23" ♀  | -03°43'29" | -13°05'05" | 00°00'05"  | 96.581 |
| 17/01/2013 00:00:00 | Y  | 22°42'34" ♁♁ | 06°50'06"  | -11°59'02" | -00°00'13" | 86.253 |
| 18/01/2013 00:00:00 | ♁  | 28°03'17" ♁  | -20°32'51" | 00°00'00"  | 01°01'05"  | 0.984  |
| 18/01/2013 00:00:00 | ♁  | 16°53'28" ♀  | 09°27'36"  | 03°03'32"  | 12°27'31"  | 0.003  |
| 18/01/2013 00:00:00 | ♁  | 27°48'48" ♁  | -22°34'28" | -02°01'09" | 01°39'51"  | 1.422  |
| 18/01/2013 00:00:00 | ♁  | 11°03'38" ♁  | -23°00'01" | -00°01'29" | 01°15'11"  | 1.608  |
| 18/01/2013 00:00:00 | ♁  | 18°04'52" ♁  | -16°27'26" | -01°06'06" | 00°47'24"  | 2.264  |
| 18/01/2013 00:00:00 | ♁  | 06°35'32" ♉♁ | 20°46'26"  | -00°38'32" | -00°02'32" | 4.397  |
| 18/01/2013 00:00:00 | ♁  | 10°39'45" ♎♁ | -12°44'28" | 02°23'51"  | 00°03'11"  | 9.964  |
| 18/01/2013 00:00:00 | ♁  | 05°08'50" ♀  | 01°24'24"  | -00°41'41" | 00°01'45"  | 20.419 |
| 18/01/2013 00:00:00 | ♁  | 01°34'51" ♈  | -11°28'46" | -00°36'30" | 00°01'58"  | 30.805 |
| 18/01/2013 00:00:00 | ♁  | 09°54'59" ♁  | -19°46'10" | 03°18'17"  | 00°02'02"  | 33.302 |
| 18/01/2013 00:00:00 | ♁  | 23°43'30" ♎♁ | -18°42'05" | 00°00'00"  | -00°01'31" | 0.002  |
| 18/01/2013 00:00:00 | ♁  | 06°52'00" ♈  | -04°12'24" | 05°08'39"  | 00°03'13"  | 18.152 |
| 18/01/2013 00:00:00 | ♁  | 14°10'18" ♉  | 20°37'20"  | -01°53'16" | 00°06'39"  | 0.003  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 18/01/2013 00:00:00 | T♄ | 23°43'30" ♍ | -18°42'05" | 00°00'00"  | -00°01'31" | 0.002  |
| 18/01/2013 00:00:00 | T♄ | 11°46'46" ♁ | 20°37'40"  | -01°34'57" | -01°38'39" | 0.003  |
| 18/01/2013 00:00:00 | X  | 21°37'28" ♀ | -03°43'17" | -13°04'55" | 00°00'06"  | 96.598 |
| 18/01/2013 00:00:00 | Y  | 22°42'21" ♁ | 06°50'11"  | -11°58'54" | -00°00'12" | 86.267 |
| 19/01/2013 00:00:00 | ☉  | 29°04'22" ♁ | -20°20'28" | 00°00'00"  | 01°01'04"  | 0.984  |
| 19/01/2013 00:00:00 | ☾  | 29°11'18" ♀ | 13°09'56"  | 02°07'11"  | 12°09'02"  | 0.003  |
| 19/01/2013 00:00:00 | ♁  | 29°28'55" ♁ | -22°15'25" | -02°02'46" | 01°40'23"  | 1.418  |
| 19/01/2013 00:00:00 | ♂  | 12°18'49" ♁ | -22°55'58" | -00°04'02" | 01°15'11"  | 1.611  |
| 19/01/2013 00:00:00 | ♂  | 18°52'17" ♁ | -16°12'30" | -01°05'52" | 00°47'24"  | 2.266  |
| 19/01/2013 00:00:00 | ♂  | 06°33'05" ♁ | 20°46'15"  | -00°38'18" | -00°02'20" | 4.410  |
| 19/01/2013 00:00:00 | ♂  | 10°42'55" ♍ | -12°45'14" | 02°24'04"  | 00°03'06"  | 9.948  |
| 19/01/2013 00:00:00 | ♂  | 05°10'37" ♀ | 01°25'09"  | -00°41'39" | 00°01'48"  | 20.435 |
| 19/01/2013 00:00:00 | ♂  | 01°36'50" ♁ | -11°28'03" | -00°36'30" | 00°01'59"  | 30.815 |
| 19/01/2013 00:00:00 | ♂  | 09°57'01" ♁ | -19°46'05" | 03°18'13"  | 00°02'02"  | 33.297 |
| 19/01/2013 00:00:00 | ♂  | 23°42'49" ♍ | -18°41'55" | 00°00'00"  | 00°00'01"  | 0.002  |
| 19/01/2013 00:00:00 | ♂  | 06°55'15" ♁ | -04°11'26" | 05°08'25"  | 00°03'15"  | 18.164 |
| 19/01/2013 00:00:00 | ♂  | 14°16'57" ♁ | 20°37'17"  | -01°54'06" | 00°06'39"  | 0.003  |
| 19/01/2013 00:00:00 | T♄ | 23°42'49" ♍ | -18°41'55" | 00°00'00"  | 00°00'01"  | 0.002  |
| 19/01/2013 00:00:00 | T♄ | 10°32'42" ♁ | 20°33'40"  | -01°28'44" | -00°50'49" | 0.003  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 19/01/2013 00:00:00 | X  | 21°37'35" ♀ | -03°43'05" | -13°04'45" | 00°00'06"  | 96.615 |
| 19/01/2013 00:00:00 | Y  | 22°42'09" ♂ | 06°50'16"  | -11°58'46" | -00°00'11" | 86.282 |
| 20/01/2013 00:00:00 | ☉  | 00°05'26" ♁ | -20°07'41" | 00°00'00"  | 01°01'03"  | 0.984  |
| 20/01/2013 00:00:00 | ☾  | 11°13'22" ♂ | 16°14'41"  | 01°06'18"  | 11°56'01"  | 0.003  |
| 20/01/2013 00:00:00 | ♀  | 01°09'35" ♁ | -21°54'50" | -02°04'01" | 01°40'55"  | 1.414  |
| 20/01/2013 00:00:00 | ♀  | 13°34'01" ♂ | -22°51'13" | -00°06'34" | 01°15'11"  | 1.614  |
| 20/01/2013 00:00:00 | ♂  | 19°39'42" ♁ | -15°57'24" | -01°05'37" | 00°47'25"  | 2.269  |
| 20/01/2013 00:00:00 | ♃  | 06°30'51" ♃ | 20°46'06"  | -00°38'04" | -00°02'08" | 4.423  |
| 20/01/2013 00:00:00 | ♅  | 10°45'58" ♃ | -12°45'58" | 02°24'18"  | 00°03'00"  | 9.931  |
| 20/01/2013 00:00:00 | ♁  | 05°12'27" ♀ | 01°25'54"  | -00°41'37" | 00°01'51"  | 20.451 |
| 20/01/2013 00:00:00 | ♂  | 01°38'50" ♃ | -11°27'20" | -00°36'30" | 00°02'00"  | 30.824 |
| 20/01/2013 00:00:00 | ♁  | 09°59'03" ♂ | -19°46'00" | 03°18'09"  | 00°02'01"  | 33.291 |
| 20/01/2013 00:00:00 | ♁  | 23°43'13" ♃ | -18°42'01" | 00°00'00"  | 00°00'35"  | 0.002  |
| 20/01/2013 00:00:00 | ♁  | 06°58'32" ♃ | -04°10'27" | 05°08'11"  | 00°03'17"  | 18.176 |
| 20/01/2013 00:00:00 | ♁  | 14°23'37" ♃ | 20°37'14"  | -01°54'55" | 00°06'39"  | 0.003  |
| 20/01/2013 00:00:00 | T♁ | 23°43'13" ♃ | -18°42'01" | 00°00'00"  | 00°00'35"  | 0.002  |
| 20/01/2013 00:00:00 | T♁ | 10°01'07" ♃ | 20°31'53"  | -01°25'58" | -00°14'48" | 0.003  |
| 20/01/2013 00:00:00 | X  | 21°37'42" ♀ | -03°42'53" | -13°04'34" | 00°00'07"  | 96.631 |
| 20/01/2013 00:00:00 | Y  | 22°41'58" ♂ | 06°50'21"  | -11°58'38" | -00°00'11" | 86.297 |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 21/01/2013 00:00:00 | ☉ | 01°06'29" ♊ | -19°54'32" | 00°00'00"  | 01°01'02"  | 0.984  |
| 21/01/2013 00:00:00 | ☾ | 23°05'12" ♋ | 18°35'49"  | 00°03'25"  | 11°48'31"  | 0.003  |
| 21/01/2013 00:00:00 | ♃ | 02°50'47" ♊ | -21°32'44" | -02°04'53" | 01°41'28"  | 1.409  |
| 21/01/2013 00:00:00 | ♄ | 14°49'12" ♌ | -22°45'46" | -00°09'05" | 01°15'11"  | 1.617  |
| 21/01/2013 00:00:00 | ♅ | 20°27'07" ♊ | -15°42'09" | -01°05'22" | 00°47'25"  | 2.271  |
| 21/01/2013 00:00:00 | ♆ | 06°28'49" ♉ | 20°45'59"  | -00°37'50" | -00°01'56" | 4.437  |
| 21/01/2013 00:00:00 | ♇ | 10°48'56" ♎ | -12°46'40" | 02°24'31"  | 00°02'55"  | 9.915  |
| 21/01/2013 00:00:00 | ♈ | 05°14'19" ♏ | 01°26'41"  | -00°41'34" | 00°01'53"  | 20.466 |
| 21/01/2013 00:00:00 | ♉ | 01°40'50" ♏ | -11°26'37" | -00°36'30" | 00°02'01"  | 30.833 |
| 21/01/2013 00:00:00 | ♊ | 10°01'04" ♌ | -19°45'55" | 03°18'05"  | 00°02'00"  | 33.286 |
| 21/01/2013 00:00:00 | ♋ | 23°43'38" ♎ | -18°42'07" | 00°00'00"  | 00°00'03"  | 0.002  |
| 21/01/2013 00:00:00 | ♌ | 07°01'50" ♏ | -04°09'27" | 05°07'58"  | 00°03'19"  | 18.187 |
| 21/01/2013 00:00:00 | ♍ | 14°30'16" ♉ | 20°37'10"  | -01°55'44" | 00°06'39"  | 0.003  |
| 21/01/2013 00:00:00 | ♎ | 23°43'38" ♎ | -18°42'07" | 00°00'00"  | 00°00'03"  | 0.002  |
| 21/01/2013 00:00:00 | ♏ | 09°57'47" ♉ | 20°31'48"  | -01°25'33" | 00°05'28"  | 0.003  |
| 21/01/2013 00:00:00 | ♐ | 21°37'49" ♏ | -03°42'41" | -13°04'24" | 00°00'08"  | 96.648 |
| 21/01/2013 00:00:00 | ♑ | 22°41'47" ♋ | 06°50'26"  | -11°58'30" | -00°00'10" | 86.312 |
| 22/01/2013 00:00:00 | ☉ | 02°07'32" ♊ | -19°41'00" | 00°00'00"  | 01°01'02"  | 0.984  |
| 22/01/2013 00:00:00 | ☾ | 04°52'10" ♉ | 20°08'10"  | -00°59'05" | 11°46'14"  | 0.003  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 22/01/2013 00:00:00 | ♀  | 04°32'32" ♊ | -21°09'05" | -02°05'20" | 01°42'00"  | 1.403  |
| 22/01/2013 00:00:00 | ♀  | 16°04'23" ♋ | -22°39'37" | -00°11'35" | 01°15'11"  | 1.619  |
| 22/01/2013 00:00:00 | ♂  | 21°14'33" ♊ | -15°26'43" | -01°05'07" | 00°47'25"  | 2.273  |
| 22/01/2013 00:00:00 | ♋  | 06°26'58" ♉ | 20°45'54"  | -00°37'36" | -00°01'43" | 4.450  |
| 22/01/2013 00:00:00 | ♌  | 10°51'48" ♎ | -12°47'20" | 02°24'45"  | 00°02'49"  | 9.899  |
| 22/01/2013 00:00:00 | ♍  | 05°16'14" ♏ | 01°27'28"  | -00°41'32" | 00°01'56"  | 20.482 |
| 22/01/2013 00:00:00 | ♎  | 01°42'52" ♏ | -11°25'54" | -00°36'30" | 00°02'02"  | 30.842 |
| 22/01/2013 00:00:00 | ♏  | 10°03'05" ♋ | -19°45'49" | 03°18'02"  | 00°02'00"  | 33.280 |
| 22/01/2013 00:00:00 | ♏  | 23°42'59" ♎ | -18°41'58" | 00°00'00"  | -00°01'30" | 0.002  |
| 22/01/2013 00:00:00 | ♏  | 07°05'10" ♏ | -04°08'26" | 05°07'45"  | 00°03'21"  | 18.198 |
| 22/01/2013 00:00:00 | ♏  | 14°36'56" ♉ | 20°37'07"  | -01°56'34" | 00°06'39"  | 0.003  |
| 22/01/2013 00:00:00 | T♏ | 23°42'59" ♎ | -18°41'58" | 00°00'00"  | -00°01'30" | 0.002  |
| 22/01/2013 00:00:00 | T♏ | 10°07'05" ♉ | 20°32'29"  | -01°26'14" | 00°10'55"  | 0.003  |
| 22/01/2013 00:00:00 | X  | 21°37'58" ♏ | -03°42'28" | -13°04'14" | 00°00'08"  | 96.665 |
| 22/01/2013 00:00:00 | Y  | 22°41'37" ♏ | 06°50'31"  | -11°58'22" | -00°00'09" | 86.327 |
| 23/01/2013 00:00:00 | ♏  | 03°08'33" ♊ | -19°27'07" | 00°00'00"  | 01°01'01"  | 0.984  |
| 23/01/2013 00:00:00 | ♏  | 16°39'13" ♉ | 20°47'39"  | -01°58'55" | 11°48'34"  | 0.003  |
| 23/01/2013 00:00:00 | ♀  | 06°14'49" ♊ | -20°43'55" | -02°05'22" | 01°42'32"  | 1.396  |
| 23/01/2013 00:00:00 | ♀  | 17°19'34" ♋ | -22°32'46" | -00°14'04" | 01°15'10"  | 1.622  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 23/01/2013 00:00:00 | ♂  | 22°01'58" ♊ | -15°11'08" | -01°04'51" | 00°47'25"  | 2.275  |
| 23/01/2013 00:00:00 | ♃  | 06°25'21" ♉ | 20°45'52"  | -00°37'22" | -00°01'31" | 4.463  |
| 23/01/2013 00:00:00 | ♅  | 10°54'35" ♌ | -12°47'58" | 02°24'59"  | 00°02'43"  | 9.882  |
| 23/01/2013 00:00:00 | ♁  | 05°18'12" ♈ | 01°28'17"  | -00°41'30" | 00°01'58"  | 20.497 |
| 23/01/2013 00:00:00 | ♆  | 01°44'55" ♉ | -11°25'10" | -00°36'30" | 00°02'03"  | 30.850 |
| 23/01/2013 00:00:00 | ♁  | 10°05'05" ♈ | -19°45'44" | 03°17'58"  | 00°01'59"  | 33.274 |
| 23/01/2013 00:00:00 | ♁  | 23°40'20" ♌ | -18°41'18" | 00°00'00"  | -00°03'53" | 0.002  |
| 23/01/2013 00:00:00 | ♃  | 07°08'32" ♉ | -04°07'24" | 05°07'32"  | 00°03'22"  | 18.209 |
| 23/01/2013 00:00:00 | ♁  | 14°43'35" ♉ | 20°37'03"  | -01°57'23" | 00°06'39"  | 0.003  |
| 23/01/2013 00:00:00 | T♁ | 23°40'20" ♌ | -18°41'18" | 00°00'00"  | -00°03'53" | 0.002  |
| 23/01/2013 00:00:00 | T♁ | 10°16'20" ♉ | 20°33'01"  | -01°27'02" | 00°06'38"  | 0.003  |
| 23/01/2013 00:00:00 | X  | 21°38'07" ♈ | -03°42'15" | -13°04'04" | 00°00'09"  | 96.681 |
| 23/01/2013 00:00:00 | Y  | 22°41'28" ♉ | 06°50'37"  | -11°58'14" | -00°00'08" | 86.342 |
| 24/01/2013 00:00:00 | ♁  | 04°09'34" ♊ | -19°12'52" | -00°00'00" | 01°01'00"  | 0.984  |
| 24/01/2013 00:00:00 | ♃  | 28°30'37" ♉ | 20°31'49"  | -02°53'50" | 11°54'45"  | 0.003  |
| 24/01/2013 00:00:00 | ♁  | 07°57'37" ♊ | -20°17'12" | -02°04'58" | 01°43'04"  | 1.389  |
| 24/01/2013 00:00:00 | ♀  | 18°34'45" ♈ | -22°25'14" | -00°16'32" | 01°15'10"  | 1.625  |
| 24/01/2013 00:00:00 | ♂  | 22°49'24" ♊ | -14°55'24" | -01°04'35" | 00°47'25"  | 2.277  |
| 24/01/2013 00:00:00 | ♃  | 06°23'55" ♉ | 20°45'51"  | -00°37'08" | -00°01'19" | 4.477  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 24/01/2013 00:00:00 | ♃  | 10°57'16" ♉ | -12°48'35" | 02°25'12"  | 00°02'38"  | 9.866  |
| 24/01/2013 00:00:00 | ♅  | 05°20'12" ♋ | 01°29'06"  | -00°41'28" | 00°02'01"  | 20.512 |
| 24/01/2013 00:00:00 | ♆  | 01°46'59" ♌ | -11°24'25" | -00°36'30" | 00°02'04"  | 30.859 |
| 24/01/2013 00:00:00 | ♁  | 10°07'04" ♈ | -19°45'38" | 03°17'55"  | 00°01'58"  | 33.268 |
| 24/01/2013 00:00:00 | ♄  | 23°35'03" ♉ | -18°39'59" | 00°00'00"  | -00°06'43" | 0.002  |
| 24/01/2013 00:00:00 | ♂  | 07°11'56" ♌ | -04°06'21" | 05°07'19"  | 00°03'24"  | 18.219 |
| 24/01/2013 00:00:00 | ♁  | 14°50'14" ♈ | 20°36'59"  | -01°58'12" | 00°06'39"  | 0.003  |
| 24/01/2013 00:00:00 | ♄♁ | 23°35'03" ♉ | -18°39'59" | 00°00'00"  | -00°06'43" | 0.002  |
| 24/01/2013 00:00:00 | ♁♃ | 10°20'18" ♈ | 20°33'03"  | -01°27'34" | 00°02'19"  | 0.003  |
| 24/01/2013 00:00:00 | X  | 21°38'17" ♋ | -03°42'02" | -13°03'54" | 00°00'10"  | 96.698 |
| 24/01/2013 00:00:00 | Y  | 22°41'19" ♌ | 06°50'43"  | -11°58'06" | -00°00'08" | 86.357 |
| 25/01/2013 00:00:00 | ♁  | 05°10'34" ♈ | -18°58'16" | -00°00'00" | 01°00'59"  | 0.984  |
| 25/01/2013 00:00:00 | ♃  | 10°29'42" ♉ | 19°20'25"  | -03°41'30" | 12°03'49"  | 0.003  |
| 25/01/2013 00:00:00 | ♁  | 09°40'57" ♈ | -19°48'58" | -02°04'06" | 01°43'34"  | 1.381  |
| 25/01/2013 00:00:00 | ♁  | 19°49'56" ♈ | -22°17'01" | -00°18'58" | 01°15'10"  | 1.628  |
| 25/01/2013 00:00:00 | ♁  | 23°36'50" ♈ | -14°39'31" | -01°04'19" | 00°47'25"  | 2.280  |
| 25/01/2013 00:00:00 | ♁♃ | 06°22'42" ♈ | 20°45'52"  | -00°36'53" | -00°01'07" | 4.491  |
| 25/01/2013 00:00:00 | ♃  | 10°59'51" ♉ | -12°49'09" | 02°25'26"  | 00°02'32"  | 9.849  |
| 25/01/2013 00:00:00 | ♅  | 05°22'15" ♋ | 01°29'57"  | -00°41'26" | 00°02'03"  | 20.527 |



Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 25/01/2013 00:00:00 | ♁ | 01°49'04" ♈ | -11°23'41" | -00°36'30" | 00°02'05"  | 30.867 |
| 25/01/2013 00:00:00 | ♁ | 10°09'02" ♈ | -19°45'33" | 03°17'52"  | 00°01'58"  | 33.262 |
| 25/01/2013 00:00:00 | ♁ | 23°26'54" ♎ | -18°37'57" | 00°00'00"  | -00°09'32" | 0.002  |
| 25/01/2013 00:00:00 | ♁ | 07°15'21" ♈ | -04°05'17" | 05°07'07"  | 00°03'26"  | 18.229 |
| 25/01/2013 00:00:00 | ♁ | 14°56'54" ♉ | 20°36'54"  | -01°59'01" | 00°06'39"  | 0.003  |
| 25/01/2013 00:00:00 | ♁ | 23°26'54" ♎ | -18°37'57" | 00°00'00"  | -00°09'32" | 0.002  |
| 25/01/2013 00:00:00 | ♁ | 10°25'29" ♉ | 20°32'55"  | -01°28'28" | 00°11'28"  | 0.003  |
| 25/01/2013 00:00:00 | X | 21°38'27" ♀ | -03°41'49" | -13°03'43" | 00°00'10"  | 96.714 |
| 25/01/2013 00:00:00 | Y | 22°41'12" ♄ | 06°50'49"  | -11°57'58" | -00°00'07" | 86.372 |
| 26/01/2013 00:00:00 | ♁ | 06°11'33" ♁ | -18°43'19" | -00°00'00" | 01°00'58"  | 0.985  |
| 26/01/2013 00:00:00 | ♁ | 22°38'55" ♁ | 17°15'46"  | -04°19'42" | 12°14'49"  | 0.003  |
| 26/01/2013 00:00:00 | ♁ | 11°24'45" ♁ | -19°19'12" | -02°02'45" | 01°44'02"  | 1.372  |
| 26/01/2013 00:00:00 | ♁ | 21°05'06" ♈ | -22°08'08" | -00°21'24" | 01°15'10"  | 1.631  |
| 26/01/2013 00:00:00 | ♁ | 24°24'16" ♁ | -14°23'30" | -01°04'02" | 00°47'25"  | 2.282  |
| 26/01/2013 00:00:00 | ♁ | 06°21'41" ♉ | 20°45'56"  | -00°36'39" | -00°00'54" | 4.505  |
| 26/01/2013 00:00:00 | ♁ | 11°02'20" ♎ | -12°49'42" | 02°25'40"  | 00°02'26"  | 9.832  |
| 26/01/2013 00:00:00 | ♁ | 05°24'20" ♀ | 01°30'48"  | -00°41'24" | 00°02'06"  | 20.542 |
| 26/01/2013 00:00:00 | ♁ | 01°51'09" ♈ | -11°22'56" | -00°36'30" | 00°02'05"  | 30.874 |
| 26/01/2013 00:00:00 | ♁ | 10°11'00" ♈ | -19°45'27" | 03°17'48"  | 00°01'57"  | 33.255 |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 26/01/2013 00:00:00 | ♏  | 23°16'07" ♍ | -18°35'15" | 00°00'00"  | -00°11'53" | 0.002  |
| 26/01/2013 00:00:00 | ♋  | 07°18'48" ♏ | -04°04'13" | 05°06'55"  | 00°03'27"  | 18.240 |
| 26/01/2013 00:00:00 | ♌  | 15°03'33" ♏ | 20°36'49"  | -01°59'50" | 00°06'39"  | 0.003  |
| 26/01/2013 00:00:00 | T♏ | 23°16'07" ♍ | -18°35'15" | 00°00'00"  | -00°11'53" | 0.002  |
| 26/01/2013 00:00:00 | T♌ | 10°52'07" ♏ | 20°33'45"  | -01°31'24" | 00°46'55"  | 0.003  |
| 26/01/2013 00:00:00 | X  | 21°38'38" ♏ | -03°41'36" | -13°03'33" | 00°00'11"  | 96.730 |
| 26/01/2013 00:00:00 | Y  | 22°41'04" ♏ | 06°50'55"  | -11°57'50" | -00°00'06" | 86.388 |
| 27/01/2013 00:00:00 | ☉  | 07°12'30" ♏ | -18°28'02" | -00°00'00" | 01°00'57"  | 0.985  |
| 27/01/2013 00:00:00 | ☾  | 04°59'41" ♏ | 14°22'49"  | -04°46'18" | 12°26'48"  | 0.003  |
| 27/01/2013 00:00:00 | ♀  | 13°09'02" ♏ | -18°47'55" | -02°00'54" | 01°44'29"  | 1.362  |
| 27/01/2013 00:00:00 | ♀  | 22°20'17" ♏ | -21°58'34" | -00°23'47" | 01°15'10"  | 1.633  |
| 27/01/2013 00:00:00 | ♂  | 25°11'42" ♏ | -14°07'19" | -01°03'45" | 00°47'25"  | 2.284  |
| 27/01/2013 00:00:00 | ♃  | 06°20'52" ♏ | 20°46'01"  | -00°36'25" | -00°00'42" | 4.519  |
| 27/01/2013 00:00:00 | ♅  | 11°04'44" ♏ | -12°50'13" | 02°25'54"  | 00°02'20"  | 9.816  |
| 27/01/2013 00:00:00 | ♁  | 05°26'27" ♏ | 01°31'41"  | -00°41'22" | 00°02'08"  | 20.557 |
| 27/01/2013 00:00:00 | ♆  | 01°53'15" ♏ | -11°22'11" | -00°36'30" | 00°02'06"  | 30.882 |
| 27/01/2013 00:00:00 | ♁  | 10°12'57" ♏ | -19°45'22" | 03°17'45"  | 00°01'56"  | 33.248 |
| 27/01/2013 00:00:00 | ♏  | 23°03'24" ♍ | -18°32'03" | 00°00'00"  | -00°13'22" | 0.002  |
| 27/01/2013 00:00:00 | ♋  | 07°22'16" ♏ | -04°03'08" | 05°06'43"  | 00°03'29"  | 18.249 |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 27/01/2013 00:00:00 | ☾ | 15°10'13" ♀ | 20°36'44"  | -02°00'39" | 00°06'39"  | 0.003  |
| 27/01/2013 00:00:00 | ♄ | 23°03'24" ♀ | -18°32'03" | 00°00'00"  | -00°13'22" | 0.002  |
| 27/01/2013 00:00:00 | ♄ | 12°09'41" ♀ | 20°36'54"  | -01°38'46" | 01°52'57"  | 0.003  |
| 27/01/2013 00:00:00 | X | 21°38'50" ♀ | -03°41'22" | -13°03'23" | 00°00'11"  | 96.747 |
| 27/01/2013 00:00:00 | Y | 22°40'58" ♀ | 06°51'01"  | -11°57'41" | -00°00'06" | 86.403 |
| 28/01/2013 00:00:00 | ☉ | 08°13'27" ♀ | -18°12'25" | -00°00'00" | 01°00'56"  | 0.985  |
| 28/01/2013 00:00:00 | ☾ | 17°32'36" ♀ | 10°48'47"  | -04°59'33" | 12°38'59"  | 0.003  |
| 28/01/2013 00:00:00 | ♀ | 14°53'43" ♀ | -18°15'09" | -01°58'32" | 01°44'52"  | 1.352  |
| 28/01/2013 00:00:00 | ♀ | 23°35'27" ♀ | -21°48'20" | -00°26'10" | 01°15'10"  | 1.636  |
| 28/01/2013 00:00:00 | ♂ | 25°59'08" ♀ | -13°51'00" | -01°03'27" | 00°47'25"  | 2.286  |
| 28/01/2013 00:00:00 | ♃ | 06°20'15" ♀ | 20°46'09"  | -00°36'11" | -00°00'30" | 4.533  |
| 28/01/2013 00:00:00 | ♃ | 11°07'01" ♀ | -12°50'41" | 02°26'08"  | 00°02'14"  | 9.799  |
| 28/01/2013 00:00:00 | ♃ | 05°28'37" ♀ | 01°32'34"  | -00°41'20" | 00°02'11"  | 20.572 |
| 28/01/2013 00:00:00 | ♃ | 01°55'22" ♀ | -11°21'26" | -00°36'30" | 00°02'07"  | 30.889 |
| 28/01/2013 00:00:00 | ♃ | 10°14'53" ♀ | -19°45'16" | 03°17'42"  | 00°01'55"  | 33.240 |
| 28/01/2013 00:00:00 | ♄ | 22°49'46" ♀ | -18°28'37" | 00°00'00"  | -00°13'41" | 0.002  |
| 28/01/2013 00:00:00 | ♃ | 07°25'46" ♀ | -04°02'01" | 05°06'31"  | 00°03'30"  | 18.259 |
| 28/01/2013 00:00:00 | ☾ | 15°16'52" ♀ | 20°36'39"  | -02°01'27" | 00°06'39"  | 0.003  |
| 28/01/2013 00:00:00 | ♄ | 22°49'46" ♀ | -18°28'37" | 00°00'00"  | -00°13'41" | 0.002  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 28/01/2013 00:00:00 | T♄ | 14°45'10" ♀ | 20°42'01"  | -01°52'34" | 03°19'59"  | 0.003  |
| 28/01/2013 00:00:00 | X  | 21°39'02" ♀ | -03°41'09" | -13°03'13" | 00°00'12"  | 96.763 |
| 28/01/2013 00:00:00 | Y  | 22°40'52" ♂ | 06°51'08"  | -11°57'33" | -00°00'05" | 86.419 |
| 29/01/2013 00:00:00 | ☉  | 09°14'23" ♁ | -17°56'28" | -00°00'00" | 01°00'55"  | 0.985  |
| 29/01/2013 00:00:00 | ☾  | 00°17'33" ♁ | 06°42'43"  | -04°58'10" | 12°50'49"  | 0.003  |
| 29/01/2013 00:00:00 | ♀  | 16°38'45" ♁ | -17°40'55" | -01°55'36" | 01°45'11"  | 1.340  |
| 29/01/2013 00:00:00 | ♀  | 24°50'37" ♂ | -21°37'26" | -00°28'30" | 01°15'10"  | 1.639  |
| 29/01/2013 00:00:00 | ♂  | 26°46'33" ♁ | -13°34'33" | -01°03'09" | 00°47'25"  | 2.288  |
| 29/01/2013 00:00:00 | ♃  | 06°19'51" ♀ | 20°46'19"  | -00°35'57" | -00°00'18" | 4.548  |
| 29/01/2013 00:00:00 | ♅  | 11°09'13" ♁ | -12°51'08" | 02°26'22"  | 00°02'08"  | 9.783  |
| 29/01/2013 00:00:00 | ♁  | 05°30'50" ♀ | 01°33'28"  | -00°41'18" | 00°02'13"  | 20.586 |
| 29/01/2013 00:00:00 | ♆  | 01°57'30" ♀ | -11°20'40" | -00°36'30" | 00°02'08"  | 30.896 |
| 29/01/2013 00:00:00 | ♁  | 10°16'48" ♂ | -19°45'10" | 03°17'39"  | 00°01'54"  | 33.233 |
| 29/01/2013 00:00:00 | ♁  | 22°36'27" ♁ | -18°25'14" | 00°00'00"  | -00°12'45" | 0.002  |
| 29/01/2013 00:00:00 | ♂  | 07°29'17" ♀ | -04°00'55" | 05°06'20"  | 00°03'31"  | 18.268 |
| 29/01/2013 00:00:00 | ♄  | 15°23'31" ♀ | 20°36'34"  | -02°02'16" | 00°06'39"  | 0.003  |
| 29/01/2013 00:00:00 | T♁ | 22°36'27" ♁ | -18°25'14" | 00°00'00"  | -00°12'45" | 0.002  |
| 29/01/2013 00:00:00 | T♄ | 18°49'42" ♀ | 20°45'13"  | -02°13'12" | 04°47'01"  | 0.003  |
| 29/01/2013 00:00:00 | X  | 21°39'15" ♀ | -03°40'55" | -13°03'03" | 00°00'13"  | 96.779 |

Ephemerides year 2013

|                     |   |           |            |            |            |        |
|---------------------|---|-----------|------------|------------|------------|--------|
| 29/01/2013 00:00:00 | Y | 22°40'47" | 06°51'15"  | -11°57'25" | -00°00'04" | 86.435 |
| 30/01/2013 00:00:00 |   | 10°15'19" | -17°40'11" | -00°00'00" | 01°00'54"  | 0.985  |
| 30/01/2013 00:00:00 |   | 13°14'04" | 02°15'05"  | -04°41'32" | 13°02'08"  | 0.003  |
| 30/01/2013 00:00:00 |   | 18°24'05" | -17°05'15" | -01°52'07" | 01°45'26"  | 1.328  |
| 30/01/2013 00:00:00 |   | 26°05'48" | -21°25'53" | -00°30'49" | 01°15'10"  | 1.641  |
| 30/01/2013 00:00:00 |   | 27°33'59" | -13°17'59" | -01°02'50" | 00°47'25"  | 2.290  |
| 30/01/2013 00:00:00 |   | 06°19'39" | 20°46'30"  | -00°35'43" | -00°00'05" | 4.562  |
| 30/01/2013 00:00:00 |   | 11°11'18" | -12°51'33" | 02°26'37"  | 00°02'02"  | 9.766  |
| 30/01/2013 00:00:00 |   | 05°33'04" | 01°34'23"  | -00°41'16" | 00°02'15"  | 20.600 |
| 30/01/2013 00:00:00 |   | 01°59'39" | -11°19'54" | -00°36'30" | 00°02'08"  | 30.902 |
| 30/01/2013 00:00:00 |   | 10°18'42" | -19°45'05" | 03°17'37"  | 00°01'53"  | 33.225 |
| 30/01/2013 00:00:00 |   | 22°24'38" | -18°22'13" | 00°00'00"  | -00°10'42" | 0.002  |
| 30/01/2013 00:00:00 |   | 07°32'50" | -03°59'47" | 05°06'09"  | 00°03'33"  | 18.277 |
| 30/01/2013 00:00:00 |   | 15°30'11" | 20°36'28"  | -02°03'05" | 00°06'39"  | 0.003  |
| 30/01/2013 00:00:00 | T | 22°24'38" | -18°22'13" | 00°00'00"  | -00°10'42" | 0.002  |
| 30/01/2013 00:00:00 | T | 24°10'54" | 20°39'47"  | -02°38'50" | 05°49'17"  | 0.003  |
| 30/01/2013 00:00:00 | X | 21°39'28" | -03°40'41" | -13°02'53" | 00°00'13"  | 96.795 |
| 30/01/2013 00:00:00 | Y | 22°40'43" | 06°51'22"  | -11°57'17" | -00°00'04" | 86.450 |
| 31/01/2013 00:00:00 |   | 11°16'13" | -17°23'36" | -00°00'00" | 01°00'53"  | 0.985  |

Ephemerides year 2013

|                     |   |           |   |            |            |            |        |
|---------------------|---|-----------|---|------------|------------|------------|--------|
| 31/01/2013 00:00:00 | ♃ | 26°21'42" | ♎ | -02°22'33" | -04°09'52" | 13°13'04"  | 0.003  |
| 31/01/2013 00:00:00 | ♆ | 20°09'36" | ♏ | -16°28'10" | -01°48'02" | 01°45'35"  | 1.315  |
| 31/01/2013 00:00:00 | ♀ | 27°20'58" | ♏ | -21°13'42" | -00°33'06" | 01°15'10"  | 1.644  |
| 31/01/2013 00:00:00 | ♂ | 28°21'24" | ♏ | -13°01'16" | -01°02'32" | 00°47'25"  | 2.293  |
| 31/01/2013 00:00:00 | ♃ | 06°19'39" | ♈ | 20°46'44"  | -00°35'29" | 00°00'06"  | 4.577  |
| 31/01/2013 00:00:00 | ♃ | 11°13'18" | ♎ | -12°51'56" | 02°26'51"  | 00°01'56"  | 9.749  |
| 31/01/2013 00:00:00 | ♃ | 05°35'21" | ♈ | 01°35'19"  | -00°41'14" | 00°02'18"  | 20.615 |
| 31/01/2013 00:00:00 | ♃ | 02°01'48" | ♈ | -11°19'08" | -00°36'31" | 00°02'09"  | 30.909 |
| 31/01/2013 00:00:00 | ♃ | 10°20'36" | ♏ | -19°44'59" | 03°17'34"  | 00°01'52"  | 33.217 |
| 31/01/2013 00:00:00 | ♁ | 22°15'16" | ♎ | -18°19'49" | 00°00'00"  | -00°07'54" | 0.002  |
| 31/01/2013 00:00:00 | ♃ | 07°36'24" | ♈ | -03°58'38" | 05°05'58"  | 00°03'34"  | 18.286 |
| 31/01/2013 00:00:00 | ♃ | 15°36'50" | ♈ | 20°36'22"  | -02°03'54" | 00°06'39"  | 0.003  |
| 31/01/2013 00:00:00 | ♁ | 22°15'16" | ♎ | -18°19'49" | 00°00'00"  | -00°07'54" | 0.002  |
| 31/01/2013 00:00:00 | ♃ | 00°13'10" | ♈ | 20°20'21"  | -03°05'47" | 06°06'31"  | 0.003  |
| 31/01/2013 00:00:00 | X | 21°39'42" | ♈ | -03°40'26" | -13°02'43" | 00°00'14"  | 96.811 |
| 31/01/2013 00:00:00 | Y | 22°40'39" | ♁ | 06°51'29"  | -11°57'08" | -00°00'03" | 86.466 |
| 01/02/2013 00:00:00 | ♁ | 12°17'06" | ♏ | -17°06'42" | -00°00'00" | 01°00'53"  | 0.985  |
| 01/02/2013 00:00:00 | ♃ | 09°40'13" | ♈ | -06°57'34" | -03°24'14" | 13°24'01"  | 0.003  |
| 01/02/2013 00:00:00 | ♆ | 21°55'13" | ♏ | -15°49'44" | -01°43'20" | 01°45'37"  | 1.301  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 01/02/2013 00:00:00 | ♀  | 28°36'08" ♍ | -21°00'52" | -00°35'21" | 01°15'10"  | 1.646  |
| 01/02/2013 00:00:00 | ♂  | 29°08'50" ♍ | -12°44'25" | -01°02'12" | 00°47'25"  | 2.295  |
| 01/02/2013 00:00:00 | ♃  | 06°19'52" ♉ | 20°47'00"  | -00°35'16" | 00°00'18"  | 4.592  |
| 01/02/2013 00:00:00 | ♅  | 11°15'11" ♌ | -12°52'18" | 02°27'05"  | 00°01'50"  | 9.733  |
| 01/02/2013 00:00:00 | ♁  | 05°37'40" ♋ | 01°36'16"  | -00°41'13" | 00°02'20"  | 20.629 |
| 01/02/2013 00:00:00 | ♆  | 02°03'57" ♋ | -11°18'22" | -00°36'31" | 00°02'10"  | 30.915 |
| 01/02/2013 00:00:00 | ♁  | 10°22'28" ♍ | -19°44'53" | 03°17'31"  | 00°01'52"  | 33.209 |
| 01/02/2013 00:00:00 | ♄  | 22°08'52" ♌ | -18°18'10" | 00°00'00"  | -00°04'53" | 0.002  |
| 01/02/2013 00:00:00 | ♃  | 07°39'59" ♋ | -03°57'29" | 05°05'47"  | 00°03'36"  | 18.295 |
| 01/02/2013 00:00:00 | ♁  | 15°43'29" ♉ | 20°36'15"  | -02°04'42" | 00°06'39"  | 0.003  |
| 01/02/2013 00:00:00 | T♄ | 22°08'52" ♌ | -18°18'10" | 00°00'00"  | -00°04'53" | 0.002  |
| 01/02/2013 00:00:00 | T♁ | 06°05'39" ♋ | 19°48'05"  | -03°29'52" | 05°29'18"  | 0.003  |
| 01/02/2013 00:00:00 | X  | 21°39'57" ♋ | -03°40'12" | -13°02'34" | 00°00'14"  | 96.827 |
| 01/02/2013 00:00:00 | Y  | 22°40'36" ♌ | 06°51'37"  | -11°57'00" | -00°00'02" | 86.482 |
| 02/02/2013 00:00:00 | ♁  | 13°17'59" ♍ | -16°49'30" | 00°00'00"  | 01°00'52"  | 0.986  |
| 02/02/2013 00:00:00 | ♃  | 23°09'54" ♉ | -11°16'09" | -02°26'33" | 13°35'26"  | 0.003  |
| 02/02/2013 00:00:00 | ♁  | 23°40'48" ♍ | -15°10'00" | -01°38'00" | 01°45'30"  | 1.285  |
| 02/02/2013 00:00:00 | ♀  | 29°51'18" ♍ | -20°47'25" | -00°37'34" | 01°15'09"  | 1.649  |
| 02/02/2013 00:00:00 | ♂  | 29°56'15" ♍ | -12°27'28" | -01°01'53" | 00°47'25"  | 2.297  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 02/02/2013 00:00:00 | ♃  | 06°20'16" ♀ | 20°47'18"  | -00°35'02" | 00°00'30"  | 4.607  |
| 02/02/2013 00:00:00 | ♅  | 11°16'59" ♃ | -12°52'37" | 02°27'20"  | 00°01'44"  | 9.716  |
| 02/02/2013 00:00:00 | ♆  | 05°40'02" ♄ | 01°37'14"  | -00°41'11" | 00°02'22"  | 20.642 |
| 02/02/2013 00:00:00 | ♇  | 02°06'08" ♀ | -11°17'35" | -00°36'31" | 00°02'10"  | 30.921 |
| 02/02/2013 00:00:00 | ♁  | 10°24'20" ♂ | -19°44'47" | 03°17'29"  | 00°01'51"  | 33.200 |
| 02/02/2013 00:00:00 | ♄  | 22°05'23" ♃ | -18°17'16" | 00°00'00"  | -00°02'12" | 0.002  |
| 02/02/2013 00:00:00 | ♅  | 07°43'36" ♀ | -03°56'19" | 05°05'37"  | 00°03'37"  | 18.303 |
| 02/02/2013 00:00:00 | ♁  | 15°50'09" ♀ | 20°36'09"  | -02°05'31" | 00°06'39"  | 0.003  |
| 02/02/2013 00:00:00 | ♁♄ | 22°05'23" ♃ | -18°17'16" | 00°00'00"  | -00°02'12" | 0.002  |
| 02/02/2013 00:00:00 | ♁♅ | 10°55'10" ♃ | 19°12'03"  | -03°47'54" | 04°02'44"  | 0.003  |
| 02/02/2013 00:00:00 | X  | 21°40'12" ♄ | -03°39'57" | -13°02'24" | 00°00'15"  | 96.842 |
| 02/02/2013 00:00:00 | Y  | 22°40'34" ♂ | 06°51'44"  | -11°56'51" | -00°00'01" | 86.498 |
| 03/02/2013 00:00:00 | ♁  | 14°18'51" ♃ | -16°32'01" | 00°00'00"  | 01°00'51"  | 0.986  |
| 03/02/2013 00:00:00 | ♃  | 06°51'23" ♃ | -15°03'17" | -01°19'37" | 13°47'38"  | 0.003  |
| 03/02/2013 00:00:00 | ♆  | 25°26'10" ♃ | -14°29'02" | -01°32'00" | 01°45'12"  | 1.269  |
| 03/02/2013 00:00:00 | ♁  | 01°06'28" ♃ | -20°33'21" | -00°39'45" | 01°15'09"  | 1.651  |
| 03/02/2013 00:00:00 | ♂  | 00°43'40" ♀ | -12°10'23" | -01°01'33" | 00°47'24"  | 2.299  |
| 03/02/2013 00:00:00 | ♃  | 06°20'53" ♀ | 20°47'38"  | -00°34'48" | 00°00'43"  | 4.622  |
| 03/02/2013 00:00:00 | ♅  | 11°18'40" ♃ | -12°52'54" | 02°27'34"  | 00°01'38"  | 9.699  |



Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 03/02/2013 00:00:00 | ♃ | 05°42'25" ♀ | 01°38'12"  | -00°41'09" | 00°02'24"  | 20.656 |
| 03/02/2013 00:00:00 | ♃ | 02°08'19" ♀ | -11°16'48" | -00°36'31" | 00°02'11"  | 30.926 |
| 03/02/2013 00:00:00 | ♃ | 10°26'11" ♀ | -19°44'41" | 03°17'26"  | 00°01'50"  | 33.191 |
| 03/02/2013 00:00:00 | ♃ | 22°04'08" ♀ | -18°16'57" | 00°00'00"  | -00°00'26" | 0.002  |
| 03/02/2013 00:00:00 | ♃ | 07°47'14" ♀ | -03°55'08" | 05°05'27"  | 00°03'38"  | 18.311 |
| 03/02/2013 00:00:00 | ♃ | 15°56'48" ♀ | 20°36'02"  | -02°06'19" | 00°06'39"  | 0.003  |
| 03/02/2013 00:00:00 | ♃ | 22°04'08" ♀ | -18°16'57" | 00°00'00"  | -00°00'26" | 0.002  |
| 03/02/2013 00:00:00 | ♃ | 14°01'11" ♀ | 18°44'34"  | -03°58'35" | 02°06'46"  | 0.003  |
| 03/02/2013 00:00:00 | X | 21°40'28" ♀ | -03°39'43" | -13°02'14" | 00°00'16"  | 96.858 |
| 03/02/2013 00:00:00 | Y | 22°40'32" ♀ | 06°51'52"  | -11°56'43" | -00°00'01" | 86.514 |
| 04/02/2013 00:00:00 | ♃ | 15°19'42" ♀ | -16°14'13" | 00°00'00"  | 01°00'50"  | 0.986  |
| 04/02/2013 00:00:00 | ♃ | 20°45'26" ♀ | -18°03'06" | -00°06'56" | 14°00'31"  | 0.002  |
| 04/02/2013 00:00:00 | ♃ | 27°11'09" ♀ | -13°46'57" | -01°25'19" | 01°44'42"  | 1.252  |
| 04/02/2013 00:00:00 | ♃ | 02°21'38" ♀ | -20°18'39" | -00°41'54" | 01°15'09"  | 1.654  |
| 04/02/2013 00:00:00 | ♃ | 01°31'04" ♀ | -11°53'11" | -01°01'12" | 00°47'24"  | 2.301  |
| 04/02/2013 00:00:00 | ♃ | 06°21'43" ♀ | 20°48'00"  | -00°34'34" | 00°00'55"  | 4.637  |
| 04/02/2013 00:00:00 | ♃ | 11°20'15" ♀ | -12°53'10" | 02°27'48"  | 00°01'32"  | 9.683  |
| 04/02/2013 00:00:00 | ♃ | 05°44'51" ♀ | 01°39'12"  | -00°41'07" | 00°02'27"  | 20.669 |
| 04/02/2013 00:00:00 | ♃ | 02°10'31" ♀ | -11°16'01" | -00°36'31" | 00°02'12"  | 30.932 |

Ephemerides year 2013

|                     |    |              |            |            |            |        |
|---------------------|----|--------------|------------|------------|------------|--------|
| 04/02/2013 00:00:00 | ♁  | 10°28'00" ♃  | -19°44'35" | 03°17'24"  | 00°01'49"  | 33.182 |
| 04/02/2013 00:00:00 | ♁  | 22°04'03" ♎  | -18°16'56" | 00°00'00"  | 00°00'01"  | 0.002  |
| 04/02/2013 00:00:00 | ♃  | 07°50'53" ♉  | -03°53'57" | 05°05'17"  | 00°03'39"  | 18.319 |
| 04/02/2013 00:00:00 | ♁  | 16°03'28" ♉  | 20°35'55"  | -02°07'08" | 00°06'39"  | 0.003  |
| 04/02/2013 00:00:00 | ♁♁ | 22°04'03" ♎  | -18°16'56" | 00°00'00"  | 00°00'01"  | 0.002  |
| 04/02/2013 00:00:00 | ♁♃ | 15°09'35" ♉  | 18°33'41"  | -04°02'16" | 00°13'28"  | 0.003  |
| 04/02/2013 00:00:00 | X  | 21°40'45" ♀  | -03°39'28" | -13°02'05" | 00°00'16"  | 96.873 |
| 04/02/2013 00:00:00 | Y  | 22°40'32" ♃♁ | 06°52'00"  | -11°56'34" | -00°00'00" | 86.530 |
| 05/02/2013 00:00:00 | ♁  | 16°20'33" ♁  | -15°56'09" | 00°00'00"  | 01°00'50"  | 0.986  |
| 05/02/2013 00:00:00 | ♁  | 04°52'25" ♃  | -20°00'12" | 01°07'14"  | 14°13'22"  | 0.002  |
| 05/02/2013 00:00:00 | ♁  | 28°55'31" ♁  | -13°03'49" | -01°17'56" | 01°43'58"  | 1.234  |
| 05/02/2013 00:00:00 | ♁  | 03°36'47" ♁  | -20°03'22" | -00°44'01" | 01°15'09"  | 1.656  |
| 05/02/2013 00:00:00 | ♁  | 02°18'29" ♉  | -11°35'52" | -01°00'52" | 00°47'24"  | 2.303  |
| 05/02/2013 00:00:00 | ♁  | 06°22'44" ♉  | 20°48'24"  | -00°34'20" | 00°01'07"  | 4.652  |
| 05/02/2013 00:00:00 | ♁  | 11°21'44" ♎  | -12°53'23" | 02°28'03"  | 00°01'26"  | 9.666  |
| 05/02/2013 00:00:00 | ♁  | 05°47'19" ♀  | 01°40'12"  | -00°41'05" | 00°02'29"  | 20.683 |
| 05/02/2013 00:00:00 | ♁  | 02°12'43" ♉  | -11°15'14" | -00°36'32" | 00°02'12"  | 30.937 |
| 05/02/2013 00:00:00 | ♁  | 10°29'49" ♃  | -19°44'29" | 03°17'22"  | 00°01'48"  | 33.173 |
| 05/02/2013 00:00:00 | ♁  | 22°03'44" ♎  | -18°16'51" | 00°00'00"  | -00°00'53" | 0.002  |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 05/02/2013 00:00:00 | ♁ | 07°54'34" ♈ | -03°52'44" | 05°05'08"  | 00°03'41"  | 18.327 |
| 05/02/2013 00:00:00 | ♁ | 16°10'07" ♈ | 20°35'47"  | -02°07'56" | 00°06'39"  | 0.003  |
| 05/02/2013 00:00:00 | ♁ | 22°03'44" ♈ | -18°16'51" | 00°00'00"  | -00°00'53" | 0.002  |
| 05/02/2013 00:00:00 | ♁ | 14°40'16" ♈ | 18°38'33"  | -04°00'33" | -01°04'05" | 0.003  |
| 05/02/2013 00:00:00 | X | 21°41'02" ♈ | -03°39'13" | -13°01'55" | 00°00'17"  | 96.889 |
| 05/02/2013 00:00:00 | Y | 22°40'32" ♈ | 06°52'08"  | -11°56'26" | 00°00'00"  | 86.546 |
| 06/02/2013 00:00:00 | ♁ | 17°21'23" ♈ | -15°37'49" | 00°00'00"  | 01°00'49"  | 0.986  |
| 06/02/2013 00:00:00 | ♁ | 19°11'45" ♈ | -20°42'03" | 02°18'10"  | 14°24'55"  | 0.002  |
| 06/02/2013 00:00:00 | ♁ | 00°39'00" ♈ | -12°19'47" | -01°09'50" | 01°42'56"  | 1.214  |
| 06/02/2013 00:00:00 | ♁ | 04°51'57" ♈ | -19°47'30" | -00°46'05" | 01°15'09"  | 1.658  |
| 06/02/2013 00:00:00 | ♁ | 03°05'53" ♈ | -11°18'27" | -01°00'30" | 00°47'24"  | 2.305  |
| 06/02/2013 00:00:00 | ♁ | 06°23'57" ♈ | 20°48'50"  | -00°34'06" | 00°01'19"  | 4.667  |
| 06/02/2013 00:00:00 | ♁ | 11°23'07" ♈ | -12°53'35" | 02°28'17"  | 00°01'19"  | 9.650  |
| 06/02/2013 00:00:00 | ♁ | 05°49'50" ♈ | 01°41'13"  | -00°41'03" | 00°02'31"  | 20.696 |
| 06/02/2013 00:00:00 | ♁ | 02°14'56" ♈ | -11°14'26" | -00°36'32" | 00°02'13"  | 30.941 |
| 06/02/2013 00:00:00 | ♁ | 10°31'37" ♈ | -19°44'23" | 03°17'19"  | 00°01'47"  | 33.163 |
| 06/02/2013 00:00:00 | ♁ | 22°01'51" ♈ | -18°16'22" | 00°00'00"  | -00°03'01" | 0.002  |
| 06/02/2013 00:00:00 | ♁ | 07°58'15" ♈ | -03°51'31" | 05°04'58"  | 00°03'42"  | 18.334 |
| 06/02/2013 00:00:00 | ♁ | 16°16'47" ♈ | 20°35'40"  | -02°08'44" | 00°06'39"  | 0.003  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 06/02/2013 00:00:00 | T♄ | 22°01'51" ♍ | -18°16'22" | 00°00'00"  | -00°03'01" | 0.002  |
| 06/02/2013 00:00:00 | T♄ | 13°18'20" ♉ | 18°51'30"  | -03°55'52" | -01°31'56" | 0.003  |
| 06/02/2013 00:00:00 | X  | 21°41'20" ♀ | -03°38'57" | -13°01'45" | 00°00'18"  | 96.904 |
| 06/02/2013 00:00:00 | Y  | 22°40'33" ♄ | 06°52'17"  | -11°56'17" | 00°00'01"  | 86.562 |
| 07/02/2013 00:00:00 | ☉  | 18°22'11" ♋ | -15°19'12" | 00°00'00"  | 01°00'48"  | 0.986  |
| 07/02/2013 00:00:00 | ☾  | 03°41'12" ♌ | -20°02'11" | 03°20'57"  | 14°33'17"  | 0.002  |
| 07/02/2013 00:00:00 | ☿  | 02°21'18" ♈ | -11°35'00" | -01°01'00" | 01°41'34"  | 1.194  |
| 07/02/2013 00:00:00 | ♀  | 06°07'07" ♋ | -19°31'02" | -00°48'07" | 01°15'09"  | 1.661  |
| 07/02/2013 00:00:00 | ♂  | 03°53'17" ♈ | -11°00'55" | -01°00'09" | 00°47'23"  | 2.308  |
| 07/02/2013 00:00:00 | ♃  | 06°25'23" ♈ | 20°49'18"  | -00°33'53" | 00°01'31"  | 4.683  |
| 07/02/2013 00:00:00 | ♅  | 11°24'24" ♍ | -12°53'44" | 02°28'32"  | 00°01'13"  | 9.633  |
| 07/02/2013 00:00:00 | ♁  | 05°52'22" ♀ | 01°42'15"  | -00°41'02" | 00°02'33"  | 20.709 |
| 07/02/2013 00:00:00 | ♆  | 02°17'10" ♈ | -11°13'39" | -00°36'32" | 00°02'13"  | 30.946 |
| 07/02/2013 00:00:00 | ♂  | 10°33'24" ♌ | -19°44'17" | 03°17'17"  | 00°01'46"  | 33.153 |
| 07/02/2013 00:00:00 | ♁  | 21°57'25" ♍ | -18°15'13" | 00°00'00"  | -00°05'55" | 0.002  |
| 07/02/2013 00:00:00 | ♂  | 08°01'58" ♈ | -03°50'18" | 05°04'50"  | 00°03'43"  | 18.341 |
| 07/02/2013 00:00:00 | ♁  | 16°23'27" ♈ | 20°35'32"  | -02°09'32" | 00°06'39"  | 0.003  |
| 07/02/2013 00:00:00 | T♄ | 21°57'25" ♍ | -18°15'13" | 00°00'00"  | -00°05'55" | 0.002  |
| 07/02/2013 00:00:00 | T♄ | 11°48'10" ♉ | 19°04'55"  | -03°50'40" | -01°24'54" | 0.003  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 07/02/2013 00:00:00 | X  | 21°41'39" ♀ | -03°38'42" | -13°01'36" | 00°00'18"  | 96.919 |
| 07/02/2013 00:00:00 | Y  | 22°40'34" ♂ | 06°52'26"  | -11°56'09" | 00°00'02"  | 86.578 |
| 08/02/2013 00:00:00 | ☉  | 19°22'59" ♋ | -15°00'20" | 00°00'00"  | 01°00'47"  | 0.986  |
| 08/02/2013 00:00:00 | ☾  | 18°16'37" ♎ | -18°02'35" | 04°10'58"  | 14°36'31"  | 0.002  |
| 08/02/2013 00:00:00 | ♀  | 04°02'02" ♉ | -10°49'37" | -00°51'25" | 01°39'50"  | 1.172  |
| 08/02/2013 00:00:00 | ♂  | 07°22'16" ♋ | -19°14'00" | -00°50'06" | 01°15'09"  | 1.663  |
| 08/02/2013 00:00:00 | ♂  | 04°40'41" ♉ | -10°43'18" | -00°59'47" | 00°47'23"  | 2.310  |
| 08/02/2013 00:00:00 | ♃  | 06°27'01" ♉ | 20°49'48"  | -00°33'39" | 00°01'43"  | 4.698  |
| 08/02/2013 00:00:00 | ♄  | 11°25'35" ♉ | -12°53'52" | 02°28'46"  | 00°01'07"  | 9.617  |
| 08/02/2013 00:00:00 | ♅  | 05°54'57" ♉ | 01°43'18"  | -00°41'00" | 00°02'35"  | 20.721 |
| 08/02/2013 00:00:00 | ♆  | 02°19'24" ♉ | -11°12'51" | -00°36'32" | 00°02'14"  | 30.950 |
| 08/02/2013 00:00:00 | ♇  | 10°35'09" ♎ | -19°44'10" | 03°17'15"  | 00°01'45"  | 33.143 |
| 08/02/2013 00:00:00 | ♈  | 21°49'58" ♉ | -18°13'18" | 00°00'00"  | -00°08'54" | 0.002  |
| 08/02/2013 00:00:00 | ♄  | 08°05'41" ♉ | -03°49'04" | 05°04'41"  | 00°03'44"  | 18.348 |
| 08/02/2013 00:00:00 | ♁  | 16°30'06" ♉ | 20°35'24"  | -02°10'21" | 00°06'39"  | 0.003  |
| 08/02/2013 00:00:00 | T♈ | 21°49'58" ♉ | -18°13'18" | 00°00'00"  | -00°08'54" | 0.002  |
| 08/02/2013 00:00:00 | T♁ | 10°30'33" ♉ | 19°15'38"  | -03°46'14" | -01°11'30" | 0.003  |
| 08/02/2013 00:00:00 | X  | 21°41'58" ♀ | -03°38'26" | -13°01'26" | 00°00'19"  | 96.934 |
| 08/02/2013 00:00:00 | Y  | 22°40'37" ♂ | 06°52'34"  | -11°56'00" | 00°00'02"  | 86.595 |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 09/02/2013 00:00:00 | ☉ | 20°23'46" ♊ | -14°41'12" | 00°00'00"  | 01°00'46"  | 0.987  |
| 09/02/2013 00:00:00 | ☾ | 02°52'00" ♊ | -14°53'45" | 04°44'32"  | 14°33'02"  | 0.002  |
| 09/02/2013 00:00:00 | ♀ | 05°40'49" ♋ | -10°03'51" | -00°41'06" | 01°37'39"  | 1.149  |
| 09/02/2013 00:00:00 | ♁ | 08°37'25" ♊ | -18°56'25" | -00°52'03" | 01°15'08"  | 1.665  |
| 09/02/2013 00:00:00 | ♂ | 05°28'04" ♋ | -10°25'34" | -00°59'25" | 00°47'22"  | 2.312  |
| 09/02/2013 00:00:00 | ♃ | 06°28'51" ♋ | 20°50'20"  | -00°33'25" | 00°01'55"  | 4.714  |
| 09/02/2013 00:00:00 | ♄ | 11°26'39" ♋ | -12°53'58" | 02°29'01"  | 00°01'01"  | 9.600  |
| 09/02/2013 00:00:00 | ♅ | 05°57'33" ♋ | 01°44'21"  | -00°40'58" | 00°02'37"  | 20.734 |
| 09/02/2013 00:00:00 | ♆ | 02°21'38" ♋ | -11°12'03" | -00°36'33" | 00°02'14"  | 30.954 |
| 09/02/2013 00:00:00 | ♇ | 10°36'54" ♋ | -19°44'04" | 03°17'13"  | 00°01'43"  | 33.133 |
| 09/02/2013 00:00:00 | ♈ | 21°39'46" ♋ | -18°10'39" | 00°00'00"  | -00°11'20" | 0.002  |
| 09/02/2013 00:00:00 | ♉ | 08°09'26" ♋ | -03°47'49" | 05°04'32"  | 00°03'44"  | 18.354 |
| 09/02/2013 00:00:00 | ♊ | 16°36'46" ♋ | 20°35'15"  | -02°11'09" | 00°06'39"  | 0.003  |
| 09/02/2013 00:00:00 | ♋ | 21°39'46" ♋ | -18°10'39" | 00°00'00"  | -00°11'20" | 0.002  |
| 09/02/2013 00:00:00 | ♌ | 09°19'49" ♋ | 19°24'36"  | -03°42'23" | -01°13'36" | 0.003  |
| 09/02/2013 00:00:00 | ♍ | 21°42'17" ♋ | -03°38'10" | -13°01'17" | 00°00'19"  | 96.949 |
| 09/02/2013 00:00:00 | ♎ | 22°40'40" ♋ | 06°52'44"  | -11°55'52" | 00°00'03"  | 86.611 |
| 10/02/2013 00:00:00 | ☉ | 21°24'31" ♊ | -14°21'50" | 00°00'00"  | 01°00'44"  | 0.987  |
| 10/02/2013 00:00:00 | ☾ | 17°20'15" ♊ | -10°52'31" | 04°59'30"  | 14°22'15"  | 0.002  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 10/02/2013 00:00:00 | ♀  | 07°17'11" ♈ | -09°17'55" | -00°30'02" | 01°34'59"  | 1.126  |
| 10/02/2013 00:00:00 | ♀  | 09°52'34" ♍ | -18°38'17" | -00°53'58" | 01°15'08"  | 1.667  |
| 10/02/2013 00:00:00 | ♂  | 06°15'26" ♈ | -10°07'45" | -00°59'03" | 00°47'22"  | 2.314  |
| 10/02/2013 00:00:00 | ♃  | 06°30'52" ♉ | 20°50'54"  | -00°33'12" | 00°02'07"  | 4.729  |
| 10/02/2013 00:00:00 | ♅  | 11°27'37" ♎ | -12°54'02" | 02°29'15"  | 00°00'54"  | 9.584  |
| 10/02/2013 00:00:00 | ♁  | 06°00'12" ♏ | 01°45'26"  | -00°40'57" | 00°02'39"  | 20.746 |
| 10/02/2013 00:00:00 | ♆  | 02°23'53" ♈ | -11°11'15" | -00°36'33" | 00°02'14"  | 30.957 |
| 10/02/2013 00:00:00 | ♁  | 10°38'37" ♎ | -19°43'58" | 03°17'11"  | 00°01'42"  | 33.123 |
| 10/02/2013 00:00:00 | ♁  | 21°27'40" ♎ | -18°07'30" | 00°00'00"  | -00°12'39" | 0.002  |
| 10/02/2013 00:00:00 | ♁  | 08°13'11" ♈ | -03°46'33" | 05°04'24"  | 00°03'45"  | 18.360 |
| 10/02/2013 00:00:00 | ♁  | 16°43'25" ♉ | 20°35'07"  | -02°11'57" | 00°06'39"  | 0.003  |
| 10/02/2013 00:00:00 | T♁ | 21°27'40" ♎ | -18°07'30" | 00°00'00"  | -00°12'39" | 0.002  |
| 10/02/2013 00:00:00 | T♁ | 07°55'31" ♏ | 19°34'22"  | -03°37'56" | -01°38'44" | 0.003  |
| 10/02/2013 00:00:00 | X  | 21°42'38" ♏ | -03°37'54" | -13°01'08" | 00°00'20"  | 96.964 |
| 10/02/2013 00:00:00 | Y  | 22°40'44" ♏ | 06°52'53"  | -11°55'43" | 00°00'04"  | 86.627 |
| 11/02/2013 00:00:00 | ♁  | 22°25'15" ♍ | -14°02'13" | 00°00'00"  | 01°00'43"  | 0.987  |
| 11/02/2013 00:00:00 | ♃  | 01°34'17" ♈ | -06°18'28" | 04°55'30"  | 14°04'48"  | 0.002  |
| 11/02/2013 00:00:00 | ♀  | 08°50'37" ♈ | -08°32'05" | -00°18'14" | 01°31'46"  | 1.101  |
| 11/02/2013 00:00:00 | ♀  | 11°07'42" ♍ | -18°19'37" | -00°55'49" | 01°15'07"  | 1.670  |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 11/02/2013 00:00:00 | ♂ | 07°02'48" ♈ | -09°49'51" | -00°58'40" | 00°47'21"  | 2.316  |
| 11/02/2013 00:00:00 | ♃ | 06°33'06" ♈ | 20°51'30"  | -00°32'58" | 00°02'19"  | 4.745  |
| 11/02/2013 00:00:00 | ♅ | 11°28'28" ♎ | -12°54'04" | 02°29'30"  | 00°00'48"  | 9.567  |
| 11/02/2013 00:00:00 | ♁ | 06°02'52" ♈ | 01°46'31"  | -00°40'55" | 00°02'41"  | 20.758 |
| 11/02/2013 00:00:00 | ♃ | 02°26'08" ♈ | -11°10'27" | -00°36'34" | 00°02'15"  | 30.961 |
| 11/02/2013 00:00:00 | ♁ | 10°40'19" ♁ | -19°43'52" | 03°17'10"  | 00°01'41"  | 33.112 |
| 11/02/2013 00:00:00 | ♁ | 21°14'56" ♎ | -18°04'11" | 00°00'00"  | -00°12'36" | 0.002  |
| 11/02/2013 00:00:00 | ♃ | 08°16'58" ♈ | -03°45'17" | 05°04'16"  | 00°03'46"  | 18.366 |
| 11/02/2013 00:00:00 | ♁ | 16°50'05" ♈ | 20°34'58"  | -02°12'45" | 00°06'39"  | 0.003  |
| 11/02/2013 00:00:00 | ♁ | 21°14'56" ♎ | -18°04'11" | 00°00'00"  | -00°12'36" | 0.002  |
| 11/02/2013 00:00:00 | ♁ | 05°56'27" ♁ | 19°46'52"  | -03°31'29" | -02°21'11" | 0.003  |
| 11/02/2013 00:00:00 | X | 21°42'58" ♈ | -03°37'38" | -13°00'59" | 00°00'20"  | 96.978 |
| 11/02/2013 00:00:00 | Y | 22°40'48" ♁ | 06°53'02"  | -11°55'35" | 00°00'04"  | 86.643 |
| 12/02/2013 00:00:00 | ♁ | 23°25'58" ♁ | -13°42'23" | 00°00'00"  | 01°00'41"  | 0.987  |
| 12/02/2013 00:00:00 | ♃ | 15°28'15" ♈ | -01°30'54" | 04°33'52"  | 13°42'28"  | 0.003  |
| 12/02/2013 00:00:00 | ♁ | 10°20'33" ♈ | -07°46'38" | -00°05'44" | 01°27'59"  | 1.075  |
| 12/02/2013 00:00:00 | ♀ | 12°22'50" ♁ | -18°00'25" | -00°57'38" | 01°15'07"  | 1.672  |
| 12/02/2013 00:00:00 | ♂ | 07°50'09" ♈ | -09°31'51" | -00°58'17" | 00°47'20"  | 2.318  |
| 12/02/2013 00:00:00 | ♃ | 06°35'31" ♈ | 20°52'08"  | -00°32'45" | 00°02'31"  | 4.761  |



Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 12/02/2013 00:00:00 | ♃ | 11°29'14" ♍ | -12°54'04" | 02°29'44"  | 00°00'42"  | 9.551  |
| 12/02/2013 00:00:00 | ♅ | 06°05'34" ♀ | 01°47'36"  | -00°40'53" | 00°02'43"  | 20.770 |
| 12/02/2013 00:00:00 | ♆ | 02°28'23" ♋ | -11°09'39" | -00°36'34" | 00°02'15"  | 30.964 |
| 12/02/2013 00:00:00 | ♁ | 10°42'00" ♄ | -19°43'46" | 03°17'08"  | 00°01'40"  | 33.101 |
| 12/02/2013 00:00:00 | ♁ | 21°02'55" ♍ | -18°01'02" | 00°00'00"  | -00°11'13" | 0.002  |
| 12/02/2013 00:00:00 | ♃ | 08°20'45" ♋ | -03°44'00" | 05°04'09"  | 00°03'47"  | 18.372 |
| 12/02/2013 00:00:00 | ♁ | 16°56'44" ♀ | 20°34'49"  | -02°13'33" | 00°06'39"  | 0.003  |
| 12/02/2013 00:00:00 | ♁ | 21°02'55" ♍ | -18°01'02" | 00°00'00"  | -00°11'13" | 0.002  |
| 12/02/2013 00:00:00 | ♁ | 03°12'31" ♋ | 20°01'47"  | -03°22'05" | -03°05'18" | 0.003  |
| 12/02/2013 00:00:00 | X | 21°43'20" ♀ | -03°37'22" | -13°00'50" | 00°00'21"  | 96.993 |
| 12/02/2013 00:00:00 | Y | 22°40'53" ♂ | 06°53'12"  | -11°55'26" | 00°00'05"  | 86.659 |
| 13/02/2013 00:00:00 | ♁ | 24°26'39" ♋ | -13°22'19" | 00°00'00"  | 01°00'40"  | 0.987  |
| 13/02/2013 00:00:00 | ♃ | 28°58'26" ♋ | 03°13'12"  | 03°57'16"  | 13°17'40"  | 0.003  |
| 13/02/2013 00:00:00 | ♆ | 11°46'22" ♋ | -07°01'54" | 00°07'25"  | 01°23'33"  | 1.049  |
| 13/02/2013 00:00:00 | ♆ | 13°37'57" ♋ | -17°40'43" | -00°59'24" | 01°15'06"  | 1.674  |
| 13/02/2013 00:00:00 | ♂ | 08°37'29" ♋ | -09°13'46" | -00°57'53" | 00°47'19"  | 2.320  |
| 13/02/2013 00:00:00 | ♁ | 06°38'08" ♀ | 20°52'48"  | -00°32'32" | 00°02'42"  | 4.776  |
| 13/02/2013 00:00:00 | ♃ | 11°29'53" ♍ | -12°54'02" | 02°29'59"  | 00°00'35"  | 9.535  |
| 13/02/2013 00:00:00 | ♅ | 06°08'18" ♀ | 01°48'43"  | -00°40'52" | 00°02'44"  | 20.782 |

Ephemerides year 2013

|                     |    |           |   |            |            |            |        |
|---------------------|----|-----------|---|------------|------------|------------|--------|
| 13/02/2013 00:00:00 | ♁  | 02°30'38" | ♈ | -11°08'50" | -00°36'34" | 00°02'15"  | 30.967 |
| 13/02/2013 00:00:00 | ♁  | 10°43'39" | ♈ | -19°43'40" | 03°17'06"  | 00°01'38"  | 33.090 |
| 13/02/2013 00:00:00 | ♁  | 20°52'48" | ♏ | -17°58'22" | 00°00'00"  | -00°08'52" | 0.002  |
| 13/02/2013 00:00:00 | ♁  | 08°24'32" | ♈ | -03°42'43" | 05°04'01"  | 00°03'48"  | 18.377 |
| 13/02/2013 00:00:00 | ♁  | 17°03'24" | ♁ | 20°34'39"  | -02°14'20" | 00°06'39"  | 0.003  |
| 13/02/2013 00:00:00 | T♁ | 20°52'48" | ♏ | -17°58'22" | 00°00'00"  | -00°08'52" | 0.002  |
| 13/02/2013 00:00:00 | T♁ | 29°51'49" | ♁ | 20°16'22"  | -03°09'46" | -03°31'43" | 0.003  |
| 13/02/2013 00:00:00 | X  | 21°43'41" | ♁ | -03°37'06" | -13°00'41" | 00°00'22"  | 97.007 |
| 13/02/2013 00:00:00 | Y  | 22°40'59" | ♁ | 06°53'21"  | -11°55'18" | 00°00'06"  | 86.676 |
| 14/02/2013 00:00:00 | ♁  | 25°27'18" | ♁ | -13°02'01" | 00°00'00"  | 01°00'38"  | 0.988  |
| 14/02/2013 00:00:00 | ♁  | 12°03'38" | ♁ | 07°39'56"  | 03°08'59"  | 12°52'56"  | 0.003  |
| 14/02/2013 00:00:00 | ♁  | 13°07'26" | ♈ | -06°18'12" | 00°21'13"  | 01°18'26"  | 1.022  |
| 14/02/2013 00:00:00 | ♁  | 14°53'04" | ♁ | -17°20'30" | -01°01'07" | 01°15'06"  | 1.676  |
| 14/02/2013 00:00:00 | ♁  | 09°24'48" | ♈ | -08°55'36" | -00°57'29" | 00°47'18"  | 2.322  |
| 14/02/2013 00:00:00 | ♁  | 06°40'57" | ♁ | 20°53'29"  | -00°32'18" | 00°02'54"  | 4.792  |
| 14/02/2013 00:00:00 | ♁  | 11°30'25" | ♏ | -12°53'58" | 02°30'13"  | 00°00'29"  | 9.519  |
| 14/02/2013 00:00:00 | ♁  | 06°11'04" | ♁ | 01°49'50"  | -00°40'50" | 00°02'46"  | 20.793 |
| 14/02/2013 00:00:00 | ♁  | 02°32'54" | ♈ | -11°08'02" | -00°36'35" | 00°02'15"  | 30.969 |
| 14/02/2013 00:00:00 | ♁  | 10°45'18" | ♈ | -19°43'34" | 03°17'05"  | 00°01'37"  | 33.078 |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 14/02/2013 00:00:00 | ♏ | 20°45'19" ♎ | -17°56'23" | 00°00'00"  | -00°06'02" | 0.002  |
| 14/02/2013 00:00:00 | ♋ | 08°28'21" ♋ | -03°41'25" | 05°03'54"  | 00°03'48"  | 18.383 |
| 14/02/2013 00:00:00 | ♌ | 17°10'03" ♌ | 20°34'29"  | -02°15'08" | 00°06'39"  | 0.003  |
| 14/02/2013 00:00:00 | ♏ | 20°45'19" ♎ | -17°56'23" | 00°00'00"  | -00°06'02" | 0.002  |
| 14/02/2013 00:00:00 | ♌ | 26°19'16" ♌ | 20°27'17"  | -02°55'51" | -03°28'06" | 0.003  |
| 14/02/2013 00:00:00 | X | 21°44'04" ♎ | -03°36'50" | -13°00'32" | 00°00'22"  | 97.021 |
| 14/02/2013 00:00:00 | Y | 22°41'06" ♋ | 06°53'31"  | -11°55'09" | 00°00'06"  | 86.692 |
| 15/02/2013 00:00:00 | ♏ | 26°27'56" ♏ | -12°41'32" | 00°00'00"  | 01°00'37"  | 0.988  |
| 15/02/2013 00:00:00 | ♎ | 24°45'04" ♎ | 11°38'22"  | 02°12'31"  | 12°30'27"  | 0.003  |
| 15/02/2013 00:00:00 | ♌ | 14°23'02" ♋ | -05°35'56" | 00°35'33"  | 01°12'38"  | 0.994  |
| 15/02/2013 00:00:00 | ♌ | 16°08'10" ♏ | -16°59'47" | -01°02'48" | 01°15'05"  | 1.678  |
| 15/02/2013 00:00:00 | ♋ | 10°12'06" ♋ | -08°37'22" | -00°57'05" | 00°47'17"  | 2.324  |
| 15/02/2013 00:00:00 | ♌ | 06°43'58" ♌ | 20°54'13"  | -00°32'05" | 00°03'06"  | 4.808  |
| 15/02/2013 00:00:00 | ♎ | 11°30'51" ♎ | -12°53'52" | 02°30'28"  | 00°00'23"  | 9.503  |
| 15/02/2013 00:00:00 | ♌ | 06°13'52" ♎ | 01°50'57"  | -00°40'49" | 00°02'48"  | 20.804 |
| 15/02/2013 00:00:00 | ♌ | 02°35'10" ♋ | -11°07'13" | -00°36'35" | 00°02'16"  | 30.971 |
| 15/02/2013 00:00:00 | ♌ | 10°46'55" ♋ | -19°43'28" | 03°17'03"  | 00°01'36"  | 33.067 |
| 15/02/2013 00:00:00 | ♏ | 20°40'40" ♎ | -17°55'09" | 00°00'00"  | -00°03'19" | 0.002  |
| 15/02/2013 00:00:00 | ♋ | 08°32'10" ♋ | -03°40'07" | 05°03'48"  | 00°03'49"  | 18.387 |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 15/02/2013 00:00:00 | ☾ | 17°16'43" ♀ | 20°34'19"  | -02°15'56" | 00°06'39"  | 0.003  |
| 15/02/2013 00:00:00 | ♄ | 20°40'40" ♀ | -17°55'09" | 00°00'00"  | -00°03'19" | 0.002  |
| 15/02/2013 00:00:00 | ♄ | 23°04'51" ♀ | 20°33'08"  | -02°42'23" | -02°57'08" | 0.003  |
| 15/02/2013 00:00:00 | X | 21°44'27" ♀ | -03°36'33" | -13°00'23" | 00°00'23"  | 97.035 |
| 15/02/2013 00:00:00 | Y | 22°41'13" ♀ | 06°53'41"  | -11°55'01" | 00°00'07"  | 86.708 |
| 16/02/2013 00:00:00 | ☉ | 27°28'32" ♀ | -12°20'50" | 00°00'00"  | 01°00'35"  | 0.988  |
| 16/02/2013 00:00:00 | ☾ | 07°05'51" ♀ | 15°00'02"  | 01°11'08"  | 12°11'52"  | 0.003  |
| 16/02/2013 00:00:00 | ♀ | 15°32'28" ♀ | -04°55'29" | 00°50'22"  | 01°06'07"  | 0.966  |
| 16/02/2013 00:00:00 | ♀ | 17°23'16" ♀ | -16°38'37" | -01°04'25" | 01°15'05"  | 1.680  |
| 16/02/2013 00:00:00 | ♂ | 10°59'23" ♀ | -08°19'04" | -00°56'41" | 00°47'16"  | 2.326  |
| 16/02/2013 00:00:00 | ♂ | 06°47'10" ♀ | 20°54'58"  | -00°31'52" | 00°03'17"  | 4.824  |
| 16/02/2013 00:00:00 | ♃ | 11°31'11" ♀ | -12°53'45" | 02°30'42"  | 00°00'16"  | 9.486  |
| 16/02/2013 00:00:00 | ♃ | 06°16'41" ♀ | 01°52'06"  | -00°40'47" | 00°02'50"  | 20.815 |
| 16/02/2013 00:00:00 | ♃ | 02°37'26" ♀ | -11°06'25" | -00°36'36" | 00°02'16"  | 30.973 |
| 16/02/2013 00:00:00 | ♃ | 10°48'30" ♀ | -19°43'21" | 03°17'02"  | 00°01'35"  | 33.055 |
| 16/02/2013 00:00:00 | ♄ | 20°38'28" ♀ | -17°54'34" | 00°00'00"  | -00°01'12" | 0.002  |
| 16/02/2013 00:00:00 | ♃ | 08°35'59" ♀ | -03°38'48" | 05°03'41"  | 00°03'49"  | 18.392 |
| 16/02/2013 00:00:00 | ☾ | 17°23'22" ♀ | 20°34'09"  | -02°16'44" | 00°06'39"  | 0.003  |
| 16/02/2013 00:00:00 | ♄ | 20°38'28" ♀ | -17°54'34" | 00°00'00"  | -00°01'12" | 0.002  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 16/02/2013 00:00:00 | T♄ | 20°29'18" ♀ | 20°34'59"  | -02°31'05" | -02°13'14" | 0.003  |
| 16/02/2013 00:00:00 | X  | 21°44'50" ♀ | -03°36'16" | -13°00'14" | 00°00'23"  | 97.049 |
| 16/02/2013 00:00:00 | Y  | 22°41'21" ♂ | 06°53'51"  | -11°54'52" | 00°00'08"  | 86.724 |
| 17/02/2013 00:00:00 | ☉  | 28°29'07" ♁ | -11°59'56" | 00°00'00"  | 01°00'33"  | 0.988  |
| 17/02/2013 00:00:00 | ☾  | 19°10'28" ♂ | 17°38'21"  | 00°07'44"  | 11°58'15"  | 0.003  |
| 17/02/2013 00:00:00 | ♀  | 16°35'03" ♀ | -04°17'15" | 01°05'33"  | 00°58'54"  | 0.938  |
| 17/02/2013 00:00:00 | ♀  | 18°38'21" ♁ | -16°16'58" | -01°05'59" | 01°15'04"  | 1.681  |
| 17/02/2013 00:00:00 | ♂  | 11°46'39" ♀ | -08°00'41" | -00°56'16" | 00°47'15"  | 2.328  |
| 17/02/2013 00:00:00 | ♃  | 06°50'33" ♀ | 20°55'45"  | -00°31'39" | 00°03'29"  | 4.840  |
| 17/02/2013 00:00:00 | ♅  | 11°31'25" ♀ | -12°53'35" | 02°30'57"  | 00°00'10"  | 9.471  |
| 17/02/2013 00:00:00 | ♁  | 06°19'32" ♀ | 01°53'15"  | -00°40'46" | 00°02'52"  | 20.826 |
| 17/02/2013 00:00:00 | ♃  | 02°39'43" ♀ | -11°05'36" | -00°36'36" | 00°02'16"  | 30.975 |
| 17/02/2013 00:00:00 | ♁  | 10°50'05" ♂ | -19°43'15" | 03°17'00"  | 00°01'33"  | 33.043 |
| 17/02/2013 00:00:00 | ♁  | 20°37'56" ♀ | -17°54'26" | 00°00'00"  | -00°00'03" | 0.002  |
| 17/02/2013 00:00:00 | ♁  | 08°39'50" ♀ | -03°37'29" | 05°03'35"  | 00°03'50"  | 18.396 |
| 17/02/2013 00:00:00 | ♄  | 17°30'02" ♀ | 20°33'59"  | -02°17'31" | 00°06'39"  | 0.003  |
| 17/02/2013 00:00:00 | T♁ | 20°37'56" ♀ | -17°54'26" | 00°00'00"  | -00°00'03" | 0.002  |
| 17/02/2013 00:00:00 | T♄ | 18°37'17" ♀ | 20°34'47"  | -02°22'38" | -01°32'26" | 0.003  |
| 17/02/2013 00:00:00 | X  | 21°45'14" ♀ | -03°36'00" | -13°00'05" | 00°00'24"  | 97.063 |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 17/02/2013 00:00:00 | Y  | 22°41'30" ♃ | 06°54'02"  | -11°54'44" | 00°00'09"  | 86.740 |
| 18/02/2013 00:00:00 | ☉  | 29°29'40" ♎ | -11°38'51" | 00°00'00"  | 01°00'31"  | 0.988  |
| 18/02/2013 00:00:00 | ☾  | 01°04'11" ♉ | 19°28'18"  | -00°55'06" | 11°50'08"  | 0.003  |
| 18/02/2013 00:00:00 | ♀  | 17°30'04" ♏ | -03°41'39" | 01°21'00"  | 00°51'00"  | 0.910  |
| 18/02/2013 00:00:00 | ♀  | 19°53'25" ♎ | -15°54'51" | -01°07'30" | 01°15'04"  | 1.683  |
| 18/02/2013 00:00:00 | ♂  | 12°33'54" ♏ | -07°42'15" | -00°55'51" | 00°47'14"  | 2.330  |
| 18/02/2013 00:00:00 | ♃  | 06°54'08" ♉ | 20°56'34"  | -00°31'26" | 00°03'40"  | 4.856  |
| 18/02/2013 00:00:00 | ♅  | 11°31'33" ♌ | -12°53'24" | 02°31'11"  | 00°00'04"  | 9.455  |
| 18/02/2013 00:00:00 | ♁  | 06°22'25" ♏ | 01°54'25"  | -00°40'44" | 00°02'53"  | 20.837 |
| 18/02/2013 00:00:00 | ♃  | 02°42'00" ♏ | -11°04'47" | -00°36'37" | 00°02'16"  | 30.976 |
| 18/02/2013 00:00:00 | ♁  | 10°51'38" ♁ | -19°43'09" | 03°16'59"  | 00°01'32"  | 33.031 |
| 18/02/2013 00:00:00 | ♁  | 20°37'58" ♌ | -17°54'26" | 00°00'00"  | -00°00'04" | 0.002  |
| 18/02/2013 00:00:00 | ♃  | 08°43'40" ♏ | -03°36'09" | 05°03'29"  | 00°03'50"  | 18.400 |
| 18/02/2013 00:00:00 | ♀  | 17°36'41" ♉ | 20°33'48"  | -02°18'19" | 00°06'39"  | 0.003  |
| 18/02/2013 00:00:00 | T♁ | 20°37'58" ♌ | -17°54'26" | 00°00'00"  | -00°00'04" | 0.002  |
| 18/02/2013 00:00:00 | T♃ | 17°19'42" ♉ | 20°33'57"  | -02°16'35" | -01°05'37" | 0.003  |
| 18/02/2013 00:00:00 | X  | 21°45'39" ♏ | -03°35'43" | -12°59'57" | 00°00'24"  | 97.076 |
| 18/02/2013 00:00:00 | Y  | 22°41'40" ♃ | 06°54'12"  | -11°54'35" | 00°00'10"  | 86.756 |
| 19/02/2013 00:00:00 | ☉  | 00°30'11" ♏ | -11°17'35" | 00°00'00"  | 01°00'30"  | 0.989  |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 19/02/2013 00:00:00 | ♃ | 12°52'36" ♀ | 20°26'11"  | -01°55'06" | 11°47'37"  | 0.003  |
| 19/02/2013 00:00:00 | ♆ | 18°16'52" ♀ | -03°09'06" | 01°36'33"  | 00°42'29"  | 0.882  |
| 19/02/2013 00:00:00 | ♁ | 21°08'29" ♀ | -15°32'19" | -01°08'58" | 01°15'03"  | 1.685  |
| 19/02/2013 00:00:00 | ♂ | 13°21'08" ♀ | -07°23'44" | -00°55'26" | 00°47'13"  | 2.332  |
| 19/02/2013 00:00:00 | ♃ | 06°57'54" ♀ | 20°57'24"  | -00°31'13" | 00°03'51"  | 4.872  |
| 19/02/2013 00:00:00 | ♄ | 11°31'34" ♀ | -12°53'11" | 02°31'25"  | -00°00'01" | 9.439  |
| 19/02/2013 00:00:00 | ♁ | 06°25'20" ♀ | 01°55'35"  | -00°40'43" | 00°02'55"  | 20.847 |
| 19/02/2013 00:00:00 | ♃ | 02°44'16" ♀ | -11°03'59" | -00°36'37" | 00°02'16"  | 30.977 |
| 19/02/2013 00:00:00 | ♁ | 10°53'10" ♀ | -19°43'03" | 03°16'58"  | 00°01'31"  | 33.019 |
| 19/02/2013 00:00:00 | ♁ | 20°37'24" ♀ | -17°54'17" | 00°00'00"  | -00°01'13" | 0.002  |
| 19/02/2013 00:00:00 | ♂ | 08°47'31" ♀ | -03°34'49" | 05°03'23"  | 00°03'51"  | 18.404 |
| 19/02/2013 00:00:00 | ♁ | 17°43'21" ♀ | 20°33'37"  | -02°19'06" | 00°06'39"  | 0.003  |
| 19/02/2013 00:00:00 | ♁ | 20°37'24" ♀ | -17°54'17" | 00°00'00"  | -00°01'13" | 0.002  |
| 19/02/2013 00:00:00 | ♁ | 16°19'43" ♀ | 20°32'54"  | -02°11'48" | -00°57'36" | 0.003  |
| 19/02/2013 00:00:00 | X | 21°46'04" ♀ | -03°35'26" | -12°59'48" | 00°00'25"  | 97.089 |
| 19/02/2013 00:00:00 | Y | 22°41'50" ♀ | 06°54'23"  | -11°54'27" | 00°00'10"  | 86.772 |
| 20/02/2013 00:00:00 | ♁ | 01°30'40" ♀ | -10°56'08" | 00°00'00"  | 01°00'28"  | 0.989  |
| 20/02/2013 00:00:00 | ♃ | 24°41'15" ♀ | 20°29'46"  | -02°50'07" | 11°50'29"  | 0.003  |
| 20/02/2013 00:00:00 | ♆ | 18°54'53" ♀ | -02°39'59" | 01°52'04"  | 00°33'25"  | 0.855  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 20/02/2013 00:00:00 | ♀  | 22°23'32" ♍ | -15°09'20" | -01°10'22" | 01°15'02"  | 1.687  |
| 20/02/2013 00:00:00 | ♂  | 14°08'21" ♏ | -07°05'10" | -00°55'00" | 00°47'12"  | 2.334  |
| 20/02/2013 00:00:00 | ♃  | 07°01'51" ♏ | 20°58'16"  | -00°31'00" | 00°04'02"  | 4.889  |
| 20/02/2013 00:00:00 | ♃  | 11°31'29" ♎ | -12°52'56" | 02°31'39"  | -00°00'08" | 9.423  |
| 20/02/2013 00:00:00 | ♃  | 06°28'16" ♏ | 01°56'46"  | -00°40'41" | 00°02'56"  | 20.857 |
| 20/02/2013 00:00:00 | ♃  | 02°46'33" ♏ | -11°03'10" | -00°36'38" | 00°02'16"  | 30.978 |
| 20/02/2013 00:00:00 | ♃  | 10°54'40" ♏ | -19°42'57" | 03°16'57"  | 00°01'29"  | 33.006 |
| 20/02/2013 00:00:00 | ♃  | 20°35'12" ♎ | -17°53'42" | 00°00'00"  | -00°03'18" | 0.002  |
| 20/02/2013 00:00:00 | ♃  | 08°51'23" ♏ | -03°33'28" | 05°03'18"  | 00°03'51"  | 18.408 |
| 20/02/2013 00:00:00 | ♃  | 17°50'01" ♏ | 20°33'26"  | -02°19'53" | 00°06'39"  | 0.003  |
| 20/02/2013 00:00:00 | T♃ | 20°35'12" ♎ | -17°53'42" | 00°00'00"  | -00°03'18" | 0.002  |
| 20/02/2013 00:00:00 | T♃ | 15°18'13" ♏ | 20°31'22"  | -02°06'55" | -01°08'14" | 0.003  |
| 20/02/2013 00:00:00 | X  | 21°46'29" ♏ | -03°35'09" | -12°59'40" | 00°00'25"  | 97.102 |
| 20/02/2013 00:00:00 | Y  | 22°42'01" ♏ | 06°54'34"  | -11°54'18" | 00°00'11"  | 86.788 |
| 21/02/2013 00:00:00 | ☾  | 02°31'07" ♏ | -10°34'32" | -00°00'00" | 01°00'26"  | 0.989  |
| 21/02/2013 00:00:00 | ♃  | 06°35'12" ♏ | 19°38'29"  | -03°38'06" | 11°58'09"  | 0.003  |
| 21/02/2013 00:00:00 | ♃  | 19°23'34" ♏ | -02°14'42" | 02°07'21"  | 00°23'54"  | 0.828  |
| 21/02/2013 00:00:00 | ♀  | 23°38'34" ♍ | -14°45'56" | -01°11'43" | 01°15'02"  | 1.689  |
| 21/02/2013 00:00:00 | ♂  | 14°55'32" ♏ | -06°46'33" | -00°54'34" | 00°47'10"  | 2.336  |



Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 21/02/2013 00:00:00 | ♃  | 07°05'59" ♀ | 20°59'10"  | -00°30'47" | 00°04'13"  | 4.905  |
| 21/02/2013 00:00:00 | ♅  | 11°31'18" ♃ | -12°52'39" | 02°31'54"  | -00°00'14" | 9.408  |
| 21/02/2013 00:00:00 | ♁  | 06°31'14" ♀ | 01°57'57"  | -00°40'40" | 00°02'58"  | 20.867 |
| 21/02/2013 00:00:00 | ♆  | 02°48'50" ♀ | -11°02'22" | -00°36'39" | 00°02'16"  | 30.978 |
| 21/02/2013 00:00:00 | ♁  | 10°56'10" ♀ | -19°42'51" | 03°16'56"  | 00°01'28"  | 32.993 |
| 21/02/2013 00:00:00 | ♁  | 20°30'36" ♃ | -17°52'29" | 00°00'00"  | -00°05'56" | 0.002  |
| 21/02/2013 00:00:00 | ♁  | 08°55'15" ♀ | -03°32'07" | 05°03'13"  | 00°03'52"  | 18.411 |
| 21/02/2013 00:00:00 | ♁  | 17°56'40" ♀ | 20°33'14"  | -02°20'41" | 00°06'39"  | 0.003  |
| 21/02/2013 00:00:00 | T♁ | 20°30'36" ♃ | -17°52'29" | 00°00'00"  | -00°05'56" | 0.002  |
| 21/02/2013 00:00:00 | T♁ | 13°58'36" ♀ | 20°28'37"  | -02°00'41" | -01°32'35" | 0.003  |
| 21/02/2013 00:00:00 | X  | 21°46'56" ♀ | -03°34'52" | -12°59'31" | 00°00'26"  | 97.115 |
| 21/02/2013 00:00:00 | Y  | 22°42'13" ♀ | 06°54'45"  | -11°54'10" | 00°00'12"  | 86.804 |
| 22/02/2013 00:00:00 | ♁  | 03°31'33" ♀ | -10°12'45" | -00°00'00" | 01°00'24"  | 0.989  |
| 22/02/2013 00:00:00 | ♁  | 18°38'54" ♀ | 17°53'41"  | -04°16'58" | 12°09'48"  | 0.003  |
| 22/02/2013 00:00:00 | ♁  | 19°42'35" ♀ | -01°53'35" | 02°22'14"  | 00°14'03"  | 0.802  |
| 22/02/2013 00:00:00 | ♁  | 24°53'36" ♀ | -14°22'08" | -01°13'01" | 01°15'01"  | 1.690  |
| 22/02/2013 00:00:00 | ♁  | 15°42'42" ♀ | -06°27'53" | -00°54'08" | 00°47'09"  | 2.338  |
| 22/02/2013 00:00:00 | ♃  | 07°10'18" ♀ | 21°00'06"  | -00°30'34" | 00°04'24"  | 4.921  |
| 22/02/2013 00:00:00 | ♅  | 11°31'01" ♃ | -12°52'20" | 02°32'08"  | -00°00'20" | 9.392  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 22/02/2013 00:00:00 | ♃  | 06°34'13" ♀ | 01°59'09"  | -00°40'39" | 00°02'59"  | 20.876 |
| 22/02/2013 00:00:00 | ♃  | 02°51'06" ♀ | -11°01'33" | -00°36'39" | 00°02'16"  | 30.978 |
| 22/02/2013 00:00:00 | ♃  | 10°57'37" ♀ | -19°42'45" | 03°16'55"  | 00°01'26"  | 32.980 |
| 22/02/2013 00:00:00 | ♃  | 20°23'16" ♀ | -17°50'32" | 00°00'00"  | -00°08'41" | 0.002  |
| 22/02/2013 00:00:00 | ♃  | 08°59'07" ♀ | -03°30'46" | 05°03'08"  | 00°03'52"  | 18.414 |
| 22/02/2013 00:00:00 | ♃  | 18°03'20" ♀ | 20°33'02"  | -02°21'28" | 00°06'39"  | 0.003  |
| 22/02/2013 00:00:00 | T♃ | 20°23'16" ♀ | -17°50'32" | 00°00'00"  | -00°08'41" | 0.002  |
| 22/02/2013 00:00:00 | T♃ | 12°11'56" ♀ | 20°23'39"  | -01°52'26" | -02°00'03" | 0.003  |
| 22/02/2013 00:00:00 | X  | 21°47'22" ♀ | -03°34'34" | -12°59'23" | 00°00'26"  | 97.128 |
| 22/02/2013 00:00:00 | Y  | 22°42'26" ♀ | 06°54'56"  | -11°54'02" | 00°00'12"  | 86.820 |
| 23/02/2013 00:00:00 | ♃  | 04°31'57" ♀ | -09°50'50" | -00°00'00" | 01°00'22"  | 0.989  |
| 23/02/2013 00:00:00 | ♃  | 00°55'47" ♀ | 15°18'50"  | -04°44'40" | 12°24'20"  | 0.003  |
| 23/02/2013 00:00:00 | ♃  | 19°51'38" ♀ | -01°36'55" | 02°36'29"  | 00°04'02"  | 0.777  |
| 23/02/2013 00:00:00 | ♃  | 26°08'37" ♀ | -13°57'57" | -01°14'15" | 01°15'00"  | 1.692  |
| 23/02/2013 00:00:00 | ♃  | 16°29'51" ♀ | -06°09'10" | -00°53'41" | 00°47'07"  | 2.340  |
| 23/02/2013 00:00:00 | ♃  | 07°14'48" ♀ | 21°01'03"  | -00°30'22" | 00°04'35"  | 4.937  |
| 23/02/2013 00:00:00 | ♃  | 11°30'37" ♀ | -12°51'59" | 02°32'22"  | -00°00'26" | 9.377  |
| 23/02/2013 00:00:00 | ♃  | 06°37'13" ♀ | 02°00'22"  | -00°40'37" | 00°03'01"  | 20.886 |
| 23/02/2013 00:00:00 | ♃  | 02°53'23" ♀ | -11°00'44" | -00°36'40" | 00°02'16"  | 30.978 |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 23/02/2013 00:00:00 | ♁ | 10°59'03" ♉ | -19°42'39" | 03°16'54"  | 00°01'25"  | 32.967 |
| 23/02/2013 00:00:00 | ♁ | 20°13'22" ♎ | -17°47'53" | 00°00'00"  | -00°11'02" | 0.002  |
| 23/02/2013 00:00:00 | ♊ | 09°03'00" ♋ | -03°29'24" | 05°03'03"  | 00°03'52"  | 18.416 |
| 23/02/2013 00:00:00 | ♁ | 18°10'00" ♉ | 20°32'50"  | -02°22'15" | 00°06'39"  | 0.003  |
| 23/02/2013 00:00:00 | ♁ | 20°13'22" ♎ | -17°47'53" | 00°00'00"  | -00°11'02" | 0.002  |
| 23/02/2013 00:00:00 | ♁ | 10°02'44" ♉ | 20°15'47"  | -01°42'29" | -02°14'46" | 0.003  |
| 23/02/2013 00:00:00 | X | 21°47'49" ♀ | -03°34'17" | -12°59'15" | 00°00'27"  | 97.140 |
| 23/02/2013 00:00:00 | Y | 22°42'39" ♀ | 06°55'07"  | -11°53'53" | 00°00'13"  | 86.836 |
| 24/02/2013 00:00:00 | ♁ | 05°32'18" ♋ | -09°28'45" | -00°00'00" | 01°00'20"  | 0.990  |
| 24/02/2013 00:00:00 | ♁ | 13°28'07" ♎ | 11°59'29"  | -04°59'20" | 12°40'28"  | 0.003  |
| 24/02/2013 00:00:00 | ♁ | 19°50'41" ♋ | -01°24'58" | 02°49'53"  | -00°05'57" | 0.754  |
| 24/02/2013 00:00:00 | ♁ | 27°23'37" ♎ | -13°33'22" | -01°15'26" | 01°14'59"  | 1.694  |
| 24/02/2013 00:00:00 | ♁ | 17°16'58" ♋ | -05°50'24" | -00°53'14" | 00°47'06"  | 2.342  |
| 24/02/2013 00:00:00 | ♁ | 07°19'28" ♉ | 21°02'01"  | -00°30'09" | 00°04'45"  | 4.953  |
| 24/02/2013 00:00:00 | ♁ | 11°30'07" ♎ | -12°51'37" | 02°32'36"  | -00°00'32" | 9.362  |
| 24/02/2013 00:00:00 | ♁ | 06°40'15" ♀ | 02°01'35"  | -00°40'36" | 00°03'02"  | 20.895 |
| 24/02/2013 00:00:00 | ♁ | 02°55'40" ♋ | -10°59'55" | -00°36'40" | 00°02'16"  | 30.977 |
| 24/02/2013 00:00:00 | ♁ | 11°00'28" ♉ | -19°42'33" | 03°16'53"  | 00°01'23"  | 32.954 |
| 24/02/2013 00:00:00 | ♁ | 20°01'29" ♎ | -17°44'42" | 00°00'00"  | -00°12'33" | 0.002  |

Ephemerides year 2013

|                     |    |              |            |            |            |        |
|---------------------|----|--------------|------------|------------|------------|--------|
| 24/02/2013 00:00:00 | ♄  | 09°06'52" ♈  | -03°28'01" | 05°02'59"  | 00°03'52"  | 18.419 |
| 24/02/2013 00:00:00 | ♁  | 18°16'39" ♀  | 20°32'38"  | -02°23'02" | 00°06'39"  | 0.003  |
| 24/02/2013 00:00:00 | ♁♂ | 20°01'29" ♎♈ | -17°44'42" | 00°00'00"  | -00°12'33" | 0.002  |
| 24/02/2013 00:00:00 | ♁♁ | 07°52'03" ♀♁ | 20°05'45"  | -01°32'32" | -02°00'51" | 0.003  |
| 24/02/2013 00:00:00 | X  | 21°48'17" ♄  | -03°33'59" | -12°59'07" | 00°00'27"  | 97.153 |
| 24/02/2013 00:00:00 | Y  | 22°42'53" ♄  | 06°55'18"  | -11°53'45" | 00°00'14"  | 86.852 |
| 25/02/2013 00:00:00 | ♁  | 06°32'38" ♈  | -09°06'32" | -00°00'00" | 01°00'19"  | 0.990  |
| 25/02/2013 00:00:00 | ♁  | 26°16'49" ♄  | 08°03'23"  | -04°59'23" | 12°56'52"  | 0.003  |
| 25/02/2013 00:00:00 | ♁  | 19°39'48" ♈♁ | -01°17'52" | 03°02'13"  | -00°15'44" | 0.732  |
| 25/02/2013 00:00:00 | ♁  | 28°38'37" ♀♁ | -13°08'26" | -01°16'34" | 01°14'59"  | 1.695  |
| 25/02/2013 00:00:00 | ♁  | 18°04'04" ♈  | -05°31'36" | -00°52'47" | 00°47'05"  | 2.344  |
| 25/02/2013 00:00:00 | ♁  | 07°24'19" ♀  | 21°03'01"  | -00°29'57" | 00°04'56"  | 4.969  |
| 25/02/2013 00:00:00 | ♁  | 11°29'31" ♎♈ | -12°51'13" | 02°32'50"  | -00°00'39" | 9.346  |
| 25/02/2013 00:00:00 | ♁  | 06°43'19" ♄  | 02°02'49"  | -00°40'35" | 00°03'03"  | 20.904 |
| 25/02/2013 00:00:00 | ♁  | 02°57'57" ♈  | -10°59'06" | -00°36'41" | 00°02'16"  | 30.977 |
| 25/02/2013 00:00:00 | ♁  | 11°01'51" ♄♁ | -19°42'27" | 03°16'52"  | 00°01'22"  | 32.941 |
| 25/02/2013 00:00:00 | ♁  | 19°48'37" ♎♈ | -17°41'15" | 00°00'00"  | -00°12'58" | 0.002  |
| 25/02/2013 00:00:00 | ♁  | 09°10'45" ♈  | -03°26'39" | 05°02'55"  | 00°03'52"  | 18.421 |
| 25/02/2013 00:00:00 | ♁  | 18°23'19" ♀  | 20°32'26"  | -02°23'49" | 00°06'39"  | 0.003  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 25/02/2013 00:00:00 | T♄ | 19°48'37" ♍ | -17°41'15" | 00°00'00"  | -00°12'58" | 0.002  |
| 25/02/2013 00:00:00 | T♄ | 06°12'57" ♉ | 19°56'32"  | -01°25'17" | -01°11'42" | 0.003  |
| 25/02/2013 00:00:00 | X  | 21°48'45" ♀ | -03°33'42" | -12°58'59" | 00°00'28"  | 97.165 |
| 25/02/2013 00:00:00 | Y  | 22°43'07" ♂ | 06°55'30"  | -11°53'37" | 00°00'14"  | 86.868 |
| 26/02/2013 00:00:00 | ☉  | 07°32'57" ♈ | -08°44'10" | -00°00'00" | 01°00'17"  | 0.990  |
| 26/02/2013 00:00:00 | ☾  | 09°21'32" ♎ | 03°40'19"  | -04°43'52" | 13°12'18"  | 0.003  |
| 26/02/2013 00:00:00 | ♀  | 19°19'19" ♈ | -01°15'43" | 03°13'14"  | -00°25'07" | 0.712  |
| 26/02/2013 00:00:00 | ♀  | 29°53'36" ♋ | -12°43'08" | -01°17'37" | 01°14'58"  | 1.697  |
| 26/02/2013 00:00:00 | ♂  | 18°51'08" ♈ | -05°12'45" | -00°52'19" | 00°47'03"  | 2.346  |
| 26/02/2013 00:00:00 | ♃  | 07°29'21" ♉ | 21°04'03"  | -00°29'44" | 00°05'06"  | 4.986  |
| 26/02/2013 00:00:00 | ♅  | 11°28'49" ♍ | -12°50'47" | 02°33'04"  | -00°00'45" | 9.331  |
| 26/02/2013 00:00:00 | ♅  | 06°46'23" ♀ | 02°04'03"  | -00°40'34" | 00°03'05"  | 20.913 |
| 26/02/2013 00:00:00 | ♆  | 03°00'13" ♈ | -10°58'18" | -00°36'41" | 00°02'16"  | 30.976 |
| 26/02/2013 00:00:00 | ♁  | 11°03'13" ♄ | -19°42'22" | 03°16'51"  | 00°01'20"  | 32.927 |
| 26/02/2013 00:00:00 | ♁  | 19°35'57" ♍ | -17°37'50" | 00°00'00"  | -00°12'08" | 0.002  |
| 26/02/2013 00:00:00 | ♂  | 09°14'38" ♈ | -03°25'16" | 05°02'51"  | 00°03'52"  | 18.423 |
| 26/02/2013 00:00:00 | ♁  | 18°29'59" ♉ | 20°32'13"  | -02°24'36" | 00°06'39"  | 0.003  |
| 26/02/2013 00:00:00 | T♄ | 19°35'57" ♍ | -17°37'50" | 00°00'00"  | -00°12'08" | 0.002  |
| 26/02/2013 00:00:00 | T♄ | 05°37'57" ♉ | 19°52'16"  | -01°23'29" | 00°05'02"  | 0.003  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 26/02/2013 00:00:00 | X  | 21°49'13" ♀ | -03°33'24" | -12°58'51" | 00°00'28"  | 97.177 |
| 26/02/2013 00:00:00 | Y  | 22°43'23" ♂ | 06°55'42"  | -11°53'28" | 00°00'15"  | 86.883 |
| 27/02/2013 00:00:00 | ☉  | 08°33'13" ♋ | -08°21'41" | -00°00'00" | 01°00'15"  | 0.990  |
| 27/02/2013 00:00:00 | ☾  | 22°40'48" ♎ | -00°57'56" | -04°12'44" | 13°25'50"  | 0.003  |
| 27/02/2013 00:00:00 | ♀  | 18°49'47" ♋ | -01°18'30" | 03°22'44"  | -00°33'50" | 0.694  |
| 27/02/2013 00:00:00 | ♀  | 01°08'34" ♋ | -12°17'29" | -01°18'38" | 01°14'58"  | 1.698  |
| 27/02/2013 00:00:00 | ♂  | 19°38'11" ♋ | -04°53'52" | -00°51'51" | 00°47'02"  | 2.348  |
| 27/02/2013 00:00:00 | ♃  | 07°34'32" ♌ | 21°05'06"  | -00°29'32" | 00°05'16"  | 5.002  |
| 27/02/2013 00:00:00 | ♄  | 11°28'01" ♎ | -12°50'19" | 02°33'18"  | -00°00'51" | 9.317  |
| 27/02/2013 00:00:00 | ♅  | 06°49'29" ♀ | 02°05'17"  | -00°40'32" | 00°03'06"  | 20.921 |
| 27/02/2013 00:00:00 | ♆  | 03°02'30" ♋ | -10°57'29" | -00°36'42" | 00°02'16"  | 30.974 |
| 27/02/2013 00:00:00 | ♁  | 11°04'33" ♌ | -19°42'16" | 03°16'50"  | 00°01'19"  | 32.913 |
| 27/02/2013 00:00:00 | ♁  | 19°24'41" ♎ | -17°34'47" | 00°00'00"  | -00°10'13" | 0.002  |
| 27/02/2013 00:00:00 | ♂  | 09°18'31" ♋ | -03°23'53" | 05°02'48"  | 00°03'52"  | 18.424 |
| 27/02/2013 00:00:00 | ♁  | 18°36'38" ♌ | 20°32'00"  | -02°25'23" | 00°06'39"  | 0.003  |
| 27/02/2013 00:00:00 | T♁ | 19°24'41" ♎ | -17°34'47" | 00°00'00"  | -00°10'13" | 0.002  |
| 27/02/2013 00:00:00 | T♁ | 06°26'35" ♌ | 19°55'31"  | -01°28'40" | 01°32'28"  | 0.003  |
| 27/02/2013 00:00:00 | X  | 21°49'42" ♀ | -03°33'07" | -12°58'43" | 00°00'29"  | 97.188 |
| 27/02/2013 00:00:00 | Y  | 22°43'39" ♂ | 06°55'53"  | -11°53'20" | 00°00'16"  | 86.899 |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 28/02/2013 00:00:00 | ☉ | 09°33'28" ♈ | -07°59'05" | -00°00'00" | 01°00'14"  | 0.991  |
| 28/02/2013 00:00:00 | ☾ | 06°12'25" ♎ | -05°37'51" | -03°26'56" | 13°36'59"  | 0.003  |
| 28/02/2013 00:00:00 | ♀ | 18°11'56" ♈ | -01°26'05" | 03°30'30"  | -00°41'41" | 0.677  |
| 28/02/2013 00:00:00 | ♀ | 02°23'32" ♈ | -11°51'31" | -01°19'34" | 01°14'57"  | 1.700  |
| 28/02/2013 00:00:00 | ♂ | 20°25'13" ♈ | -04°34'57" | -00°51'23" | 00°47'00"  | 2.350  |
| 28/02/2013 00:00:00 | ♃ | 07°39'54" ♉ | 21°06'10"  | -00°29'19" | 00°05'26"  | 5.018  |
| 28/02/2013 00:00:00 | ♄ | 11°27'06" ♎ | -12°49'49" | 02°33'31"  | -00°00'57" | 9.302  |
| 28/02/2013 00:00:00 | ♅ | 06°52'36" ♏ | 02°06'32"  | -00°40'31" | 00°03'07"  | 20.929 |
| 28/02/2013 00:00:00 | ♆ | 03°04'46" ♈ | -10°56'41" | -00°36'43" | 00°02'16"  | 30.973 |
| 28/02/2013 00:00:00 | ♇ | 11°05'52" ♏ | -19°42'10" | 03°16'50"  | 00°01'17"  | 32.899 |
| 28/02/2013 00:00:00 | ♈ | 19°15'46" ♎ | -17°32'21" | 00°00'00"  | -00°07'31" | 0.002  |
| 28/02/2013 00:00:00 | ♉ | 09°22'23" ♈ | -03°22'29" | 05°02'44"  | 00°03'52"  | 18.426 |
| 28/02/2013 00:00:00 | ♊ | 18°43'18" ♉ | 20°31'46"  | -02°26'10" | 00°06'39"  | 0.003  |
| 28/02/2013 00:00:00 | ♋ | 19°15'46" ♎ | -17°32'21" | 00°00'00"  | -00°07'31" | 0.002  |
| 28/02/2013 00:00:00 | ♌ | 08°40'32" ♉ | 20°05'09"  | -01°40'50" | 02°52'57"  | 0.003  |
| 28/02/2013 00:00:00 | ♍ | 21°50'11" ♏ | -03°32'49" | -12°58'36" | 00°00'29"  | 97.200 |
| 28/02/2013 00:00:00 | ♎ | 22°43'55" ♏ | 06°56'05"  | -11°53'12" | 00°00'16"  | 86.914 |
| 01/03/2013 00:00:00 | ☉ | 10°33'42" ♈ | -07°36'21" | 00°00'00"  | 01°00'12"  | 0.991  |
| 01/03/2013 00:00:00 | ☾ | 19°53'59" ♎ | -10°04'22" | -02°28'36" | 13°45'45"  | 0.003  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 01/03/2013 00:00:00 | ♀  | 17°26'46" ♈ | -01°38'13" | 03°36'21"  | -00°48'27" | 0.663  |
| 01/03/2013 00:00:00 | ♀  | 03°38'29" ♈ | -11°25'14" | -01°20'27" | 01°14'56"  | 1.701  |
| 01/03/2013 00:00:00 | ♂  | 21°12'13" ♈ | -04°16'01" | -00°50'55" | 00°46'59"  | 2.352  |
| 01/03/2013 00:00:00 | ♃  | 07°45'26" ♉ | 21°07'16"  | -00°29'07" | 00°05'37"  | 5.034  |
| 01/03/2013 00:00:00 | ♅  | 11°26'06" ♎ | -12°49'18" | 02°33'45"  | -00°01'03" | 9.287  |
| 01/03/2013 00:00:00 | ♁  | 06°55'45" ♈ | 02°07'48"  | -00°40'30" | 00°03'08"  | 20.937 |
| 01/03/2013 00:00:00 | ♃  | 03°07'02" ♈ | -10°55'52" | -00°36'44" | 00°02'15"  | 30.971 |
| 01/03/2013 00:00:00 | ♁  | 11°07'09" ♁ | -19°42'04" | 03°16'49"  | 00°01'16"  | 32.885 |
| 01/03/2013 00:00:00 | ♁  | 19°09'43" ♎ | -17°30'42" | 00°00'00"  | -00°04'34" | 0.002  |
| 01/03/2013 00:00:00 | ♁  | 09°26'16" ♈ | -03°21'06" | 05°02'42"  | 00°03'52"  | 18.427 |
| 01/03/2013 00:00:00 | ♁  | 18°49'57" ♉ | 20°31'33"  | -02°26'57" | 00°06'39"  | 0.003  |
| 01/03/2013 00:00:00 | T♁ | 19°09'43" ♎ | -17°30'42" | 00°00'00"  | -00°04'34" | 0.002  |
| 01/03/2013 00:00:00 | T♁ | 12°05'19" ♉ | 20°16'49"  | -01°58'27" | 03°51'58"  | 0.003  |
| 01/03/2013 00:00:00 | X  | 21°50'41" ♈ | -03°32'31" | -12°58'28" | 00°00'29"  | 97.211 |
| 01/03/2013 00:00:00 | Y  | 22°44'13" ♉ | 06°56'17"  | -11°53'04" | 00°00'17"  | 86.930 |
| 02/03/2013 00:00:00 | ☉  | 11°33'53" ♈ | -07°13'31" | 00°00'00"  | 01°00'11"  | 0.991  |
| 02/03/2013 00:00:00 | ☾  | 03°43'17" ♎ | -14°01'25" | -01°20'52" | 13°52'35"  | 0.002  |
| 02/03/2013 00:00:00 | ♀  | 16°35'27" ♈ | -01°54'34" | 03°40'10"  | -00°53'58" | 0.651  |
| 02/03/2013 00:00:00 | ♀  | 04°53'26" ♈ | -10°58'38" | -01°21'17" | 01°14'56"  | 1.703  |



Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 02/03/2013 00:00:00 | ♂ | 21°59'11" ♈ | -03°57'03" | -00°50'26" | 00°46'57"  | 2.354  |
| 02/03/2013 00:00:00 | ♃ | 07°51'08" ♈ | 21°08'23"  | -00°28'55" | 00°05'47"  | 5.050  |
| 02/03/2013 00:00:00 | ♅ | 11°24'59" ♎ | -12°48'44" | 02°33'58"  | -00°01'09" | 9.273  |
| 02/03/2013 00:00:00 | ♁ | 06°58'54" ♈ | 02°09'04"  | -00°40'29" | 00°03'10"  | 20.945 |
| 02/03/2013 00:00:00 | ♆ | 03°09'17" ♈ | -10°55'04" | -00°36'44" | 00°02'15"  | 30.969 |
| 02/03/2013 00:00:00 | ♁ | 11°08'25" ♁ | -19°41'59" | 03°16'49"  | 00°01'14"  | 32.871 |
| 02/03/2013 00:00:00 | ♁ | 19°06'30" ♎ | -17°29'50" | 00°00'00"  | -00°01'56" | 0.002  |
| 02/03/2013 00:00:00 | ♃ | 09°30'09" ♈ | -03°19'42" | 05°02'39"  | 00°03'52"  | 18.427 |
| 02/03/2013 00:00:00 | ♁ | 18°56'37" ♈ | 20°31'19"  | -02°27'43" | 00°06'39"  | 0.003  |
| 02/03/2013 00:00:00 | ♁ | 19°06'30" ♎ | -17°29'50" | 00°00'00"  | -00°01'56" | 0.002  |
| 02/03/2013 00:00:00 | ♁ | 16°13'31" ♈ | 20°25'14"  | -02°18'53" | 04°18'12"  | 0.003  |
| 02/03/2013 00:00:00 | X | 21°51'11" ♈ | -03°32'14" | -12°58'21" | 00°00'30"  | 97.222 |
| 02/03/2013 00:00:00 | Y | 22°44'31" ♁ | 06°56'29"  | -11°52'56" | 00°00'18"  | 86.945 |
| 03/03/2013 00:00:00 | ♁ | 12°34'04" ♈ | -06°50'34" | 00°00'00"  | 01°00'09"  | 0.991  |
| 03/03/2013 00:00:00 | ♎ | 17°38'42" ♎ | -17°12'57" | -00°07'42" | 13°58'02"  | 0.002  |
| 03/03/2013 00:00:00 | ♁ | 15°39'18" ♈ | -02°14'40" | 03°41'51"  | -00°58'05" | 0.641  |
| 03/03/2013 00:00:00 | ♀ | 06°08'22" ♈ | -10°31'44" | -01°22'02" | 01°14'55"  | 1.704  |
| 03/03/2013 00:00:00 | ♂ | 22°46'08" ♈ | -03°38'03" | -00°49'57" | 00°46'56"  | 2.356  |
| 03/03/2013 00:00:00 | ♃ | 07°57'00" ♈ | 21°09'32"  | -00°28'43" | 00°05'57"  | 5.066  |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 03/03/2013 00:00:00 | ♃ | 11°23'47" ♍ | -12°48'09" | 02°34'12"  | -00°01'15" | 9.258  |
| 03/03/2013 00:00:00 | ♃ | 07°02'05" ♀ | 02°10'20"  | -00°40'28" | 00°03'11"  | 20.952 |
| 03/03/2013 00:00:00 | ♃ | 03°11'33" ♃ | -10°54'16" | -00°36'45" | 00°02'15"  | 30.966 |
| 03/03/2013 00:00:00 | ♃ | 11°09'39" ♁ | -19°41'53" | 03°16'48"  | 00°01'13"  | 32.857 |
| 03/03/2013 00:00:00 | ♃ | 19°05'33" ♍ | -17°29'34" | 00°00'00"  | -00°00'07" | 0.002  |
| 03/03/2013 00:00:00 | ♃ | 09°34'02" ♃ | -03°18'17" | 05°02'36"  | 00°03'52"  | 18.428 |
| 03/03/2013 00:00:00 | ♃ | 19°03'17" ♀ | 20°31'05"  | -02°28'30" | 00°06'39"  | 0.003  |
| 03/03/2013 00:00:00 | ♃ | 19°05'33" ♍ | -17°29'34" | 00°00'00"  | -00°00'07" | 0.002  |
| 03/03/2013 00:00:00 | ♃ | 20°28'43" ♀ | 20°27'06"  | -02°38'57" | 04°05'49"  | 0.003  |
| 03/03/2013 00:00:00 | X | 21°51'42" ♀ | -03°31'56" | -12°58'13" | 00°00'30"  | 97.233 |
| 03/03/2013 00:00:00 | Y | 22°44'50" ♂ | 06°56'42"  | -11°52'48" | 00°00'19"  | 86.960 |
| 04/03/2013 00:00:00 | ♃ | 13°34'12" ♃ | -06°27'32" | 00°00'00"  | 01°00'08"  | 0.992  |
| 04/03/2013 00:00:00 | ♃ | 01°39'06" ♂ | -19°24'15" | 01°06'27"  | 14°02'39"  | 0.002  |
| 04/03/2013 00:00:00 | ♃ | 14°39'45" ♃ | -02°37'58" | 03°41'22"  | -01°00'44" | 0.633  |
| 04/03/2013 00:00:00 | ♃ | 07°23'18" ♃ | -10°04'33" | -01°22'44" | 01°14'55"  | 1.705  |
| 04/03/2013 00:00:00 | ♃ | 23°33'04" ♃ | -03°19'02" | -00°49'28" | 00°46'54"  | 2.358  |
| 04/03/2013 00:00:00 | ♃ | 08°03'02" ♀ | 21°10'41"  | -00°28'31" | 00°06'06"  | 5.082  |
| 04/03/2013 00:00:00 | ♃ | 11°22'29" ♍ | -12°47'33" | 02°34'25"  | -00°01'21" | 9.244  |
| 04/03/2013 00:00:00 | ♃ | 07°05'17" ♀ | 02°11'37"  | -00°40'27" | 00°03'12"  | 20.959 |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 04/03/2013 00:00:00 | ♁  | 03°13'48" ♈ | -10°53'27" | -00°36'46" | 00°02'15"  | 30.964 |
| 04/03/2013 00:00:00 | ♁  | 11°10'51" ♈ | -19°41'48" | 03°16'48"  | 00°01'11"  | 32.842 |
| 04/03/2013 00:00:00 | ♁  | 19°05'52" ♈ | -17°29'39" | 00°00'00"  | 00°00'31"  | 0.002  |
| 04/03/2013 00:00:00 | ♁  | 09°37'54" ♈ | -03°16'53" | 05°02'34"  | 00°03'52"  | 18.428 |
| 04/03/2013 00:00:00 | ♁  | 19°09'56" ♈ | 20°30'50"  | -02°29'16" | 00°06'39"  | 0.003  |
| 04/03/2013 00:00:00 | T♁ | 19°05'52" ♈ | -17°29'39" | 00°00'00"  | 00°00'31"  | 0.002  |
| 04/03/2013 00:00:00 | T♁ | 24°14'40" ♈ | 20°22'57"  | -02°55'51" | 03°22'39"  | 0.003  |
| 04/03/2013 00:00:00 | X  | 21°52'13" ♈ | -03°31'38" | -12°58'06" | 00°00'31"  | 97.244 |
| 04/03/2013 00:00:00 | Y  | 22°45'09" ♈ | 06°56'54"  | -11°52'40" | 00°00'19"  | 86.975 |
| 05/03/2013 00:00:00 | ♁  | 14°34'20" ♈ | -06°04'23" | 00°00'00"  | 01°00'06"  | 0.992  |
| 05/03/2013 00:00:00 | ♁  | 15°43'47" ♈ | -20°24'04" | 02°17'00"  | 14°06'35"  | 0.002  |
| 05/03/2013 00:00:00 | ♁  | 13°38'18" ♈ | -03°03'54" | 03°38'44"  | -01°01'54" | 0.627  |
| 05/03/2013 00:00:00 | ♁  | 08°38'13" ♈ | -09°37'06" | -01°23'22" | 01°14'54"  | 1.707  |
| 05/03/2013 00:00:00 | ♁  | 24°19'58" ♈ | -03°00'01" | -00°48'58" | 00°46'53"  | 2.360  |
| 05/03/2013 00:00:00 | ♁  | 08°09'14" ♈ | 21°11'52"  | -00°28'19" | 00°06'16"  | 5.099  |
| 05/03/2013 00:00:00 | ♁  | 11°21'04" ♈ | -12°46'55" | 02°34'38"  | -00°01'27" | 9.230  |
| 05/03/2013 00:00:00 | ♁  | 07°08'30" ♈ | 02°12'54"  | -00°40'26" | 00°03'13"  | 20.966 |
| 05/03/2013 00:00:00 | ♁  | 03°16'03" ♈ | -10°52'39" | -00°36'47" | 00°02'14"  | 30.961 |
| 05/03/2013 00:00:00 | ♁  | 11°12'02" ♈ | -19°41'42" | 03°16'47"  | 00°01'10"  | 32.828 |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 05/03/2013 00:00:00 | ♏  | 19°06'11" ♍ | -17°29'45" | 00°00'00"  | -00°00'05" | 0.002  |
| 05/03/2013 00:00:00 | ♋  | 09°41'47" ♋ | -03°15'28" | 05°02'33"  | 00°03'52"  | 18.428 |
| 05/03/2013 00:00:00 | ♌  | 19°16'36" ♌ | 20°30'36"  | -02°30'03" | 00°06'39"  | 0.003  |
| 05/03/2013 00:00:00 | T♏ | 19°06'11" ♍ | -17°29'45" | 00°00'00"  | -00°00'05" | 0.002  |
| 05/03/2013 00:00:00 | T♌ | 27°12'25" ♌ | 20°15'53"  | -03°08'32" | 02°34'43"  | 0.003  |
| 05/03/2013 00:00:00 | X  | 21°52'45" ♄ | -03°31'20" | -12°57'59" | 00°00'31"  | 97.254 |
| 05/03/2013 00:00:00 | Y  | 22°45'29" ♀ | 06°57'06"  | -11°52'32" | 00°00'20"  | 86.990 |
| 06/03/2013 00:00:00 | ♉  | 15°34'26" ♋ | -05°41'10" | 00°00'00"  | 01°00'05"  | 0.992  |
| 06/03/2013 00:00:00 | ♊  | 29°51'59" ♈ | -20°06'41" | 03°19'27"  | 14°09'35"  | 0.002  |
| 06/03/2013 00:00:00 | ♎  | 12°36'26" ♋ | -03°31'46" | 03°34'03"  | -01°01'36" | 0.623  |
| 06/03/2013 00:00:00 | ♍  | 09°53'07" ♋ | -09°09'24" | -01°23'56" | 01°14'54"  | 1.708  |
| 06/03/2013 00:00:00 | ♊  | 25°06'50" ♋ | -02°40'58" | -00°48'28" | 00°46'51"  | 2.362  |
| 06/03/2013 00:00:00 | ♌  | 08°15'35" ♌ | 21°13'04"  | -00°28'07" | 00°06'26"  | 5.115  |
| 06/03/2013 00:00:00 | ♎  | 11°19'34" ♍ | -12°46'15" | 02°34'51"  | -00°01'33" | 9.216  |
| 06/03/2013 00:00:00 | ♏  | 07°11'44" ♄ | 02°14'11"  | -00°40'25" | 00°03'14"  | 20.973 |
| 06/03/2013 00:00:00 | ♎  | 03°18'18" ♋ | -10°51'51" | -00°36'48" | 00°02'14"  | 30.957 |
| 06/03/2013 00:00:00 | ♌  | 11°13'12" ♄ | -19°41'37" | 03°16'47"  | 00°01'08"  | 32.813 |
| 06/03/2013 00:00:00 | ♏  | 19°05'19" ♍ | -17°29'30" | 00°00'00"  | -00°01'48" | 0.002  |
| 06/03/2013 00:00:00 | ♋  | 09°45'39" ♋ | -03°14'03" | 05°02'31"  | 00°03'52"  | 18.427 |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 06/03/2013 00:00:00 | ☾ | 19°23'16" ♀ | 20°30'21"  | -02°30'49" | 00°06'39"  | 0.003  |
| 06/03/2013 00:00:00 | ♄ | 19°05'19" ♀ | -17°29'30" | 00°00'00"  | -00°01'48" | 0.002  |
| 06/03/2013 00:00:00 | ♄ | 29°31'44" ♀ | 20°08'00"  | -03°18'06" | 02°08'38"  | 0.003  |
| 06/03/2013 00:00:00 | X | 21°53'17" ♀ | -03°31'02" | -12°57'52" | 00°00'32"  | 97.264 |
| 06/03/2013 00:00:00 | Y | 22°45'50" ♀ | 06°57'19"  | -11°52'24" | 00°00'21"  | 87.005 |
| 07/03/2013 00:00:00 | ☉ | 16°34'30" ♀ | -05°17'52" | 00°00'00"  | 01°00'03"  | 0.992  |
| 07/03/2013 00:00:00 | ☾ | 14°02'25" ♀ | -18°33'16" | 04°09'49"  | 14°10'55"  | 0.002  |
| 07/03/2013 00:00:00 | ♁ | 11°35'32" ♀ | -04°00'57" | 03°27'26"  | -00°59'57" | 0.621  |
| 07/03/2013 00:00:00 | ♂ | 11°08'02" ♀ | -08°41'28" | -01°24'27" | 01°14'53"  | 1.709  |
| 07/03/2013 00:00:00 | ♂ | 25°53'41" ♀ | -02°21'55" | -00°47'58" | 00°46'50"  | 2.364  |
| 07/03/2013 00:00:00 | ♂ | 08°22'06" ♀ | 21°14'18"  | -00°27'55" | 00°06'35"  | 5.131  |
| 07/03/2013 00:00:00 | ♂ | 11°17'58" ♀ | -12°45'33" | 02°35'04"  | -00°01'38" | 9.203  |
| 07/03/2013 00:00:00 | ♂ | 07°14'59" ♀ | 02°15'29"  | -00°40'24" | 00°03'15"  | 20.979 |
| 07/03/2013 00:00:00 | ♂ | 03°20'32" ♀ | -10°51'04" | -00°36'48" | 00°02'14"  | 30.954 |
| 07/03/2013 00:00:00 | ♂ | 11°14'20" ♀ | -19°41'32" | 03°16'46"  | 00°01'06"  | 32.798 |
| 07/03/2013 00:00:00 | ♂ | 19°02'20" ♀ | -17°28'41" | 00°00'00"  | -00°04'13" | 0.002  |
| 07/03/2013 00:00:00 | ♂ | 09°49'31" ♀ | -03°12'38" | 05°02'30"  | 00°03'51"  | 18.427 |
| 07/03/2013 00:00:00 | ☾ | 19°29'56" ♀ | 20°30'06"  | -02°31'35" | 00°06'39"  | 0.003  |
| 07/03/2013 00:00:00 | ♄ | 19°02'20" ♀ | -17°28'41" | 00°00'00"  | -00°04'13" | 0.002  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 07/03/2013 00:00:00 | T♄ | 01°37'39" ♉ | 19°59'04"  | -03°26'29" | 02°05'37"  | 0.003  |
| 07/03/2013 00:00:00 | X  | 21°53'49" ♀ | -03°30'44" | -12°57'45" | 00°00'32"  | 97.274 |
| 07/03/2013 00:00:00 | Y  | 22°46'12" ♀ | 06°57'32"  | -11°52'16" | 00°00'21"  | 87.020 |
| 08/03/2013 00:00:00 | ☉  | 17°34'33" ♈ | -04°54'30" | 00°00'00"  | 01°00'01"  | 0.993  |
| 08/03/2013 00:00:00 | ☾  | 28°12'56" ♉ | -15°51'45" | 04°44'50"  | 14°09'35"  | 0.002  |
| 08/03/2013 00:00:00 | ♁  | 10°36'55" ♈ | -04°30'47" | 03°19'03"  | -00°57'04" | 0.621  |
| 08/03/2013 00:00:00 | ♂  | 12°22'55" ♈ | -08°13'17" | -01°24'54" | 01°14'53"  | 1.710  |
| 08/03/2013 00:00:00 | ♂  | 26°40'30" ♈ | -02°02'52" | -00°47'28" | 00°46'48"  | 2.365  |
| 08/03/2013 00:00:00 | ♃  | 08°28'47" ♈ | 21°15'32"  | -00°27'44" | 00°06'44"  | 5.147  |
| 08/03/2013 00:00:00 | ♄  | 11°16'16" ♈ | -12°44'50" | 02°35'17"  | -00°01'44" | 9.189  |
| 08/03/2013 00:00:00 | ♅  | 07°18'15" ♈ | 02°16'48"  | -00°40'23" | 00°03'16"  | 20.985 |
| 08/03/2013 00:00:00 | ♆  | 03°22'46" ♈ | -10°50'16" | -00°36'49" | 00°02'13"  | 30.950 |
| 08/03/2013 00:00:00 | ♇  | 11°15'26" ♈ | -19°41'27" | 03°16'46"  | 00°01'05"  | 32.783 |
| 08/03/2013 00:00:00 | ♈  | 18°56'50" ♈ | -17°27'11" | 00°00'00"  | -00°06'45" | 0.002  |
| 08/03/2013 00:00:00 | ♉  | 09°53'22" ♈ | -03°11'13" | 05°02'29"  | 00°03'51"  | 18.426 |
| 08/03/2013 00:00:00 | ♊  | 19°36'36" ♈ | 20°29'51"  | -02°32'22" | 00°06'39"  | 0.003  |
| 08/03/2013 00:00:00 | T♈ | 18°56'50" ♈ | -17°27'11" | 00°00'00"  | -00°06'45" | 0.002  |
| 08/03/2013 00:00:00 | T♄ | 03°43'51" ♉ | 19°48'20"  | -03°34'45" | 02°05'18"  | 0.003  |
| 08/03/2013 00:00:00 | X  | 21°54'22" ♀ | -03°30'26" | -12°57'38" | 00°00'32"  | 97.284 |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 08/03/2013 00:00:00 | Y  | 22°46'34" ♃ | 06°57'44"  | -11°52'08" | 00°00'22"  | 87.035 |
| 09/03/2013 00:00:00 | ☉  | 18°34'33" ♉ | -04°31'04" | 00°00'00"  | 01°00'00"  | 0.993  |
| 09/03/2013 00:00:00 | ☾  | 12°20'23" ♎ | -12°15'16" | 05°02'21"  | 14°04'37"  | 0.002  |
| 09/03/2013 00:00:00 | ♀  | 09°41'43" ♉ | -05°00'41" | 03°09'07"  | -00°53'09" | 0.623  |
| 09/03/2013 00:00:00 | ♀  | 13°37'48" ♉ | -07°44'53" | -01°25'17" | 01°14'52"  | 1.711  |
| 09/03/2013 00:00:00 | ♂  | 27°27'18" ♉ | -01°43'48" | -00°46'57" | 00°46'46"  | 2.367  |
| 09/03/2013 00:00:00 | ♃  | 08°35'36" ♉ | 21°16'47"  | -00°27'32" | 00°06'54"  | 5.163  |
| 09/03/2013 00:00:00 | ♅  | 11°14'29" ♎ | -12°44'05" | 02°35'30"  | -00°01'50" | 9.176  |
| 09/03/2013 00:00:00 | ♁  | 07°21'32" ♉ | 02°18'06"  | -00°40'22" | 00°03'17"  | 20.991 |
| 09/03/2013 00:00:00 | ♃  | 03°24'59" ♉ | -10°49'28" | -00°36'50" | 00°02'13"  | 30.946 |
| 09/03/2013 00:00:00 | ♄  | 11°16'30" ♉ | -19°41'22" | 03°16'46"  | 00°01'03"  | 32.768 |
| 09/03/2013 00:00:00 | ♆  | 18°48'58" ♎ | -17°25'02" | 00°00'00"  | -00°08'51" | 0.003  |
| 09/03/2013 00:00:00 | ♁  | 09°57'13" ♉ | -03°09'47" | 05°02'28"  | 00°03'50"  | 18.425 |
| 09/03/2013 00:00:00 | ♁  | 19°43'16" ♉ | 20°29'35"  | -02°33'08" | 00°06'39"  | 0.003  |
| 09/03/2013 00:00:00 | T♆ | 18°48'58" ♎ | -17°25'02" | 00°00'00"  | -00°08'51" | 0.003  |
| 09/03/2013 00:00:00 | T♄ | 05°42'40" ♉ | 19°36'32"  | -03°42'26" | 01°48'35"  | 0.003  |
| 09/03/2013 00:00:00 | X  | 21°54'55" ♉ | -03°30'08" | -12°57'32" | 00°00'33"  | 97.293 |
| 09/03/2013 00:00:00 | Y  | 22°46'57" ♃ | 06°57'57"  | -11°52'01" | 00°00'23"  | 87.050 |
| 10/03/2013 00:00:00 | ☉  | 19°34'33" ♉ | -04°07'35" | 00°00'00"  | 00°59'58"  | 0.993  |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 10/03/2013 00:00:00 | ♃ | 26°20'46" ♁ | -08°00'00" | 05°01'34"  | 13°55'24"  | 0.003  |
| 10/03/2013 00:00:00 | ♆ | 08°50'54" ♃ | -05°30'05" | 02°57'51"  | -00°48'21" | 0.627  |
| 10/03/2013 00:00:00 | ♀ | 14°52'40" ♃ | -07°16'17" | -01°25'36" | 01°14'51"  | 1.712  |
| 10/03/2013 00:00:00 | ♂ | 28°14'03" ♃ | -01°24'44" | -00°46'26" | 00°46'44"  | 2.369  |
| 10/03/2013 00:00:00 | ♃ | 08°42'35" ♃ | 21°18'04"  | -00°27'21" | 00°07'03"  | 5.179  |
| 10/03/2013 00:00:00 | ♃ | 11°12'35" ♃ | -12°43'18" | 02°35'42"  | -00°01'56" | 9.163  |
| 10/03/2013 00:00:00 | ♃ | 07°24'50" ♃ | 02°19'25"  | -00°40'21" | 00°03'18"  | 20.997 |
| 10/03/2013 00:00:00 | ♃ | 03°27'12" ♃ | -10°48'41" | -00°36'51" | 00°02'12"  | 30.941 |
| 10/03/2013 00:00:00 | ♃ | 11°17'33" ♃ | -19°41'17" | 03°16'46"  | 00°01'01"  | 32.753 |
| 10/03/2013 00:00:00 | ♃ | 18°39'25" ♃ | -17°22'24" | 00°00'00"  | -00°10'03" | 0.003  |
| 10/03/2013 00:00:00 | ♃ | 10°01'04" ♃ | -03°08'22" | 05°02'27"  | 00°03'50"  | 18.423 |
| 10/03/2013 00:00:00 | ♃ | 19°49'55" ♃ | 20°29'19"  | -02°33'54" | 00°06'39"  | 0.003  |
| 10/03/2013 00:00:00 | ♃ | 18°39'25" ♃ | -17°22'24" | 00°00'00"  | -00°10'03" | 0.003  |
| 10/03/2013 00:00:00 | ♃ | 07°12'58" ♃ | 19°26'19"  | -03°48'22" | 01°08'01"  | 0.003  |
| 10/03/2013 00:00:00 | X | 21°55'28" ♃ | -03°29'50" | -12°57'25" | 00°00'33"  | 97.302 |
| 10/03/2013 00:00:00 | Y | 22°47'20" ♃ | 06°58'10"  | -11°51'53" | 00°00'23"  | 87.064 |
| 11/03/2013 00:00:00 | ♃ | 20°34'30" ♃ | -03°44'02" | 00°00'00"  | 00°59'56"  | 0.993  |
| 11/03/2013 00:00:00 | ♃ | 10°09'47" ♃ | -03°23'03" | 04°43'06"  | 13°41'58"  | 0.003  |
| 11/03/2013 00:00:00 | ♆ | 08°05'13" ♃ | -05°58'32" | 02°45'29"  | -00°42'54" | 0.632  |



Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 11/03/2013 00:00:00 | ♀  | 16°07'31" ♈ | -06°47'29" | -01°25'51" | 01°14'50"  | 1.713  |
| 11/03/2013 00:00:00 | ♂  | 29°00'47" ♈ | -01°05'41" | -00°45'55" | 00°46'42"  | 2.371  |
| 11/03/2013 00:00:00 | ♃  | 08°49'43" ♀ | 21°19'21"  | -00°27'09" | 00°07'12"  | 5.195  |
| 11/03/2013 00:00:00 | ♅  | 11°10'36" ♎ | -12°42'30" | 02°35'54"  | -00°02'02" | 9.150  |
| 11/03/2013 00:00:00 | ♁  | 07°28'08" ♈ | 02°20'44"  | -00°40'20" | 00°03'18"  | 21.002 |
| 11/03/2013 00:00:00 | ♃  | 03°29'24" ♈ | -10°47'54" | -00°36'52" | 00°02'11"  | 30.937 |
| 11/03/2013 00:00:00 | ♅  | 11°18'33" ♁ | -19°41'12" | 03°16'46"  | 00°00'59"  | 32.737 |
| 11/03/2013 00:00:00 | ♄  | 18°29'14" ♎ | -17°19'36" | 00°00'00"  | -00°10'07" | 0.003  |
| 11/03/2013 00:00:00 | ♅  | 10°04'54" ♈ | -03°06'56" | 05°02'27"  | 00°03'49"  | 18.421 |
| 11/03/2013 00:00:00 | ♃  | 19°56'35" ♀ | 20°29'03"  | -02°34'40" | 00°06'39"  | 0.003  |
| 11/03/2013 00:00:00 | T♄ | 18°29'14" ♎ | -17°19'36" | 00°00'00"  | -00°10'07" | 0.003  |
| 11/03/2013 00:00:00 | T♃ | 07°51'39" ♁ | 19°21'10"  | -03°51'23" | 00°06'31"  | 0.003  |
| 11/03/2013 00:00:00 | X  | 21°56'02" ♈ | -03°29'32" | -12°57'19" | 00°00'33"  | 97.311 |
| 11/03/2013 00:00:00 | Y  | 22°47'44" ♉ | 06°58'23"  | -11°51'46" | 00°00'24"  | 87.078 |
| 12/03/2013 00:00:00 | ♁  | 21°34'26" ♈ | -03°20'27" | 00°00'00"  | 00°59'54"  | 0.994  |
| 12/03/2013 00:00:00 | ♃  | 23°43'32" ♈ | 01°19'04"  | 04°08'50"  | 13°25'01"  | 0.003  |
| 12/03/2013 00:00:00 | ♃  | 07°25'15" ♈ | -06°25'37" | 02°32'14"  | -00°36'57" | 0.638  |
| 12/03/2013 00:00:00 | ♀  | 17°22'21" ♈ | -06°18'31" | -01°26'03" | 01°14'49"  | 1.714  |
| 12/03/2013 00:00:00 | ♂  | 29°47'29" ♈ | -00°46'38" | -00°45'24" | 00°46'40"  | 2.373  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 12/03/2013 00:00:00 | ♈  | 08°57'00" Ⅱ | 21°20'40"  | -00°26'58" | 00°07'21"  | 5.210  |
| 12/03/2013 00:00:00 | ♉  | 11°08'31" ♍ | -12°41'40" | 02°36'07"  | -00°02'07" | 9.137  |
| 12/03/2013 00:00:00 | ♊  | 07°31'27" ♀ | 02°22'03"  | -00°40'20" | 00°03'19"  | 21.007 |
| 12/03/2013 00:00:00 | ♋  | 03°31'36" ♁ | -10°47'07" | -00°36'53" | 00°02'11"  | 30.932 |
| 12/03/2013 00:00:00 | ♌  | 11°19'33" ♄ | -19°41'07" | 03°16'46"  | 00°00'58"  | 32.722 |
| 12/03/2013 00:00:00 | ♍  | 18°19'32" ♍ | -17°16'55" | 00°00'00"  | -00°09'05" | 0.003  |
| 12/03/2013 00:00:00 | ♎  | 10°08'43" ♁ | -03°05'30" | 05°02'27"  | 00°03'49"  | 18.419 |
| 12/03/2013 00:00:00 | ♏  | 20°03'15" Ⅱ | 20°28'47"  | -02°35'26" | 00°06'39"  | 0.003  |
| 12/03/2013 00:00:00 | T♍ | 18°19'32" ♍ | -17°16'55" | 00°00'00"  | -00°09'05" | 0.003  |
| 12/03/2013 00:00:00 | T♎ | 07°22'36" ♏ | 19°23'33"  | -03°50'37" | -01°05'00" | 0.003  |
| 12/03/2013 00:00:00 | X  | 21°56'36" ♀ | -03°29'13" | -12°57'13" | 00°00'34"  | 97.320 |
| 12/03/2013 00:00:00 | Y  | 22°48'09" ♂ | 06°58'37"  | -11°51'38" | 00°00'24"  | 87.092 |
| 13/03/2013 00:00:00 | ♏  | 22°34'19" ♁ | -02°56'49" | 00°00'00"  | 00°59'52"  | 0.994  |
| 13/03/2013 00:00:00 | ♐  | 06°59'07" ♀ | 05°51'31"  | 03°21'38"  | 13°05'53"  | 0.003  |
| 13/03/2013 00:00:00 | ♑  | 06°51'25" ♁ | -06°51'01" | 02°18'20"  | -00°30'41" | 0.645  |
| 13/03/2013 00:00:00 | ♒  | 18°37'11" ♁ | -05°49'22" | -01°26'11" | 01°14'49"  | 1.715  |
| 13/03/2013 00:00:00 | ♓  | 00°34'09" ♀ | -00°27'35" | -00°44'53" | 00°46'38"  | 2.375  |
| 13/03/2013 00:00:00 | ♈  | 09°04'25" Ⅱ | 21°21'59"  | -00°26'47" | 00°07'30"  | 5.226  |
| 13/03/2013 00:00:00 | ♉  | 11°06'21" ♍ | -12°40'49" | 02°36'19"  | -00°02'13" | 9.124  |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 13/03/2013 00:00:00 | ♃ | 07°34'47" ♀ | 02°23'23"  | -00°40'19" | 00°03'20"  | 21.012 |
| 13/03/2013 00:00:00 | ♃ | 03°33'47" ♀ | -10°46'21" | -00°36'54" | 00°02'10"  | 30.926 |
| 13/03/2013 00:00:00 | ♃ | 11°20'30" ♀ | -19°41'02" | 03°16'45"  | 00°00'56"  | 32.706 |
| 13/03/2013 00:00:00 | ♃ | 18°11'20" ♀ | -17°14'38" | 00°00'00"  | -00°07'11" | 0.002  |
| 13/03/2013 00:00:00 | ♃ | 10°12'32" ♀ | -03°04'05" | 05°02'27"  | 00°03'48"  | 18.417 |
| 13/03/2013 00:00:00 | ♃ | 20°09'55" ♀ | 20°28'30"  | -02°36'12" | 00°06'39"  | 0.003  |
| 13/03/2013 00:00:00 | ♃ | 18°11'20" ♀ | -17°14'38" | 00°00'00"  | -00°07'11" | 0.002  |
| 13/03/2013 00:00:00 | ♃ | 05°44'02" ♀ | 19°33'07"  | -03°45'47" | -02°09'20" | 0.003  |
| 13/03/2013 00:00:00 | X | 21°57'10" ♀ | -03°28'55" | -12°57'06" | 00°00'34"  | 97.328 |
| 13/03/2013 00:00:00 | Y | 22°48'34" ♀ | 06°58'50"  | -11°51'31" | 00°00'25"  | 87.107 |
| 14/03/2013 00:00:00 | ♃ | 23°34'11" ♀ | -02°33'10" | 00°00'00"  | 00°59'50"  | 0.994  |
| 14/03/2013 00:00:00 | ♃ | 19°55'08" ♀ | 10°01'25"  | 02°24'57"  | 12°46'10"  | 0.003  |
| 14/03/2013 00:00:00 | ♃ | 06°23'56" ♀ | -07°14'28" | 02°03'59"  | -00°24'15" | 0.654  |
| 14/03/2013 00:00:00 | ♃ | 19°51'59" ♀ | -05°20'04" | -01°26'14" | 01°14'48"  | 1.716  |
| 14/03/2013 00:00:00 | ♃ | 01°20'47" ♀ | -00°08'34" | -00°44'21" | 00°46'36"  | 2.377  |
| 14/03/2013 00:00:00 | ♃ | 09°12'00" ♀ | 21°23'19"  | -00°26'35" | 00°07'38"  | 5.242  |
| 14/03/2013 00:00:00 | ♃ | 11°04'05" ♀ | -12°39'56" | 02°36'30"  | -00°02'18" | 9.112  |
| 14/03/2013 00:00:00 | ♃ | 07°38'08" ♀ | 02°24'43"  | -00°40'18" | 00°03'20"  | 21.016 |
| 14/03/2013 00:00:00 | ♃ | 03°35'58" ♀ | -10°45'34" | -00°36'55" | 00°02'10"  | 30.921 |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 14/03/2013 00:00:00 | ♁ | 11°21'26" ♈ | -19°40'58" | 03°16'45"  | 00°00'54"  | 32.691 |
| 14/03/2013 00:00:00 | ♁ | 18°05'18" ♎ | -17°12'58" | 00°00'00"  | -00°04'49" | 0.002  |
| 14/03/2013 00:00:00 | ♆ | 10°16'20" ♉ | -03°02'39" | 05°02'28"  | 00°03'47"  | 18.414 |
| 14/03/2013 00:00:00 | ♁ | 20°16'34" ♉ | 20°28'13"  | -02°36'57" | 00°06'39"  | 0.003  |
| 14/03/2013 00:00:00 | ♁ | 18°05'18" ♎ | -17°12'58" | 00°00'00"  | -00°04'49" | 0.002  |
| 14/03/2013 00:00:00 | ♁ | 03°12'26" ♎ | 19°46'28"  | -03°37'24" | -02°48'27" | 0.003  |
| 14/03/2013 00:00:00 | X | 21°57'45" ♎ | -03°28'37" | -12°57'00" | 00°00'34"  | 97.337 |
| 14/03/2013 00:00:00 | Y | 22°49'00" ♎ | 06°59'03"  | -11°51'23" | 00°00'26"  | 87.120 |
| 15/03/2013 00:00:00 | ♁ | 24°34'00" ♉ | -02°09'28" | 00°00'00"  | 00°59'48"  | 0.994  |
| 15/03/2013 00:00:00 | ♁ | 02°31'50" ♎ | 13°38'14"  | 01°22'17"  | 12°27'32"  | 0.003  |
| 15/03/2013 00:00:00 | ♁ | 06°02'54" ♉ | -07°35'49" | 01°49'20"  | -00°17'47" | 0.663  |
| 15/03/2013 00:00:00 | ♁ | 21°06'47" ♉ | -04°50'37" | -01°26'15" | 01°14'47"  | 1.717  |
| 15/03/2013 00:00:00 | ♁ | 02°07'23" ♎ | 00°10'26"  | -00°43'49" | 00°46'34"  | 2.378  |
| 15/03/2013 00:00:00 | ♁ | 09°19'43" ♉ | 21°24'40"  | -00°26'24" | 00°07'47"  | 5.258  |
| 15/03/2013 00:00:00 | ♁ | 11°01'44" ♎ | -12°39'01" | 02°36'42"  | -00°02'23" | 9.100  |
| 15/03/2013 00:00:00 | ♁ | 07°41'29" ♎ | 02°26'03"  | -00°40'17" | 00°03'21"  | 21.021 |
| 15/03/2013 00:00:00 | ♁ | 03°38'08" ♉ | -10°44'48" | -00°36'56" | 00°02'09"  | 30.915 |
| 15/03/2013 00:00:00 | ♁ | 11°22'19" ♈ | -19°40'53" | 03°16'45"  | 00°00'53"  | 32.675 |
| 15/03/2013 00:00:00 | ♁ | 18°01'42" ♎ | -17°11'58" | 00°00'00"  | -00°02'25" | 0.002  |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 15/03/2013 00:00:00 | ♁ | 10°20'08" ♈ | -03°01'13" | 05°02'29"  | 00°03'47"  | 18.412 |
| 15/03/2013 00:00:00 | ♁ | 20°23'14" ♈ | 20°27'56"  | -02°37'43" | 00°06'39"  | 0.003  |
| 15/03/2013 00:00:00 | ♁ | 18°01'42" ♈ | -17°11'58" | 00°00'00"  | -00°02'25" | 0.002  |
| 15/03/2013 00:00:00 | ♁ | 00°18'40" ♈ | 19°59'08"  | -03°27'00" | -02°53'27" | 0.003  |
| 15/03/2013 00:00:00 | X | 21°58'20" ♈ | -03°28'19" | -12°56'54" | 00°00'35"  | 97.345 |
| 15/03/2013 00:00:00 | Y | 22°49'27" ♈ | 06°59'16"  | -11°51'16" | 00°00'26"  | 87.134 |
| 16/03/2013 00:00:00 | ♁ | 25°33'48" ♈ | -01°45'46" | 00°00'00"  | 00°59'46"  | 0.995  |
| 16/03/2013 00:00:00 | ♁ | 14°51'04" ♈ | 16°33'39"  | 00°16'59"  | 12°11'29"  | 0.003  |
| 16/03/2013 00:00:00 | ♁ | 05°48'20" ♈ | -07°54'54" | 01°34'33"  | -00°11'22" | 0.674  |
| 16/03/2013 00:00:00 | ♁ | 22°21'33" ♈ | -04°21'03" | -01°26'11" | 01°14'46"  | 1.718  |
| 16/03/2013 00:00:00 | ♁ | 02°53'56" ♈ | 00°29'25"  | -00°43'17" | 00°46'32"  | 2.380  |
| 16/03/2013 00:00:00 | ♁ | 09°27'35" ♈ | 21°26'02"  | -00°26'13" | 00°07'55"  | 5.273  |
| 16/03/2013 00:00:00 | ♁ | 10°59'17" ♈ | -12°38'05" | 02°36'53"  | -00°02'29" | 9.088  |
| 16/03/2013 00:00:00 | ♁ | 07°44'51" ♈ | 02°27'23"  | -00°40'17" | 00°03'22"  | 21.024 |
| 16/03/2013 00:00:00 | ♁ | 03°40'17" ♈ | -10°44'02" | -00°36'57" | 00°02'08"  | 30.909 |
| 16/03/2013 00:00:00 | ♁ | 11°23'12" ♈ | -19°40'49" | 03°16'45"  | 00°00'51"  | 32.659 |
| 16/03/2013 00:00:00 | ♁ | 18°00'19" ♈ | -17°11'35" | 00°00'00"  | -00°00'24" | 0.002  |
| 16/03/2013 00:00:00 | ♁ | 10°23'54" ♈ | -02°59'48" | 05°02'30"  | 00°03'46"  | 18.408 |
| 16/03/2013 00:00:00 | ♁ | 20°29'54" ♈ | 20°27'39"  | -02°38'29" | 00°06'39"  | 0.003  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 16/03/2013 00:00:00 | T♄ | 18°00'19" ♍ | -17°11'35" | 00°00'00"  | -00°00'24" | 0.002  |
| 16/03/2013 00:00:00 | T♄ | 27°34'56" ♉ | 20°08'21"  | -03°16'30" | -02°30'33" | 0.003  |
| 16/03/2013 00:00:00 | X  | 21°58'55" ♀ | -03°28'01" | -12°56'49" | 00°00'35"  | 97.352 |
| 16/03/2013 00:00:00 | Y  | 22°49'54" ♂ | 06°59'30"  | -11°51'09" | 00°00'27"  | 87.148 |
| 17/03/2013 00:00:00 | ☉  | 26°33'33" ♈ | -01°22'03" | 00°00'00"  | 00°59'44"  | 0.995  |
| 17/03/2013 00:00:00 | ☾  | 26°56'03" ♂ | 18°41'29"  | -00°47'59" | 11°59'11"  | 0.003  |
| 17/03/2013 00:00:00 | ☿  | 05°40'06" ♈ | -08°11'38" | 01°19'48"  | -00°05'05" | 0.685  |
| 17/03/2013 00:00:00 | ♀  | 23°36'19" ♈ | -03°51'21" | -01°26'03" | 01°14'45"  | 1.718  |
| 17/03/2013 00:00:00 | ♂  | 03°40'28" ♀ | 00°48'23"  | -00°42'45" | 00°46'30"  | 2.382  |
| 17/03/2013 00:00:00 | ♃  | 09°35'35" ♉ | 21°27'24"  | -00°26'03" | 00°08'04"  | 5.289  |
| 17/03/2013 00:00:00 | ♅  | 10°56'46" ♍ | -12°37'08" | 02°37'05"  | -00°02'34" | 9.076  |
| 17/03/2013 00:00:00 | ♁  | 07°48'13" ♀ | 02°28'43"  | -00°40'16" | 00°03'22"  | 21.028 |
| 17/03/2013 00:00:00 | ♆  | 03°42'26" ♈ | -10°43'17" | -00°36'58" | 00°02'08"  | 30.903 |
| 17/03/2013 00:00:00 | ♁  | 11°24'02" ♁ | -19°40'44" | 03°16'45"  | 00°00'49"  | 32.643 |
| 17/03/2013 00:00:00 | ♁  | 18°00'38" ♍ | -17°11'40" | 00°00'00"  | 00°00'53"  | 0.002  |
| 17/03/2013 00:00:00 | ♂  | 10°27'40" ♈ | -02°58'22" | 05°02'31"  | 00°03'45"  | 18.405 |
| 17/03/2013 00:00:00 | ♁  | 20°36'34" ♉ | 20°27'21"  | -02°39'14" | 00°06'39"  | 0.003  |
| 17/03/2013 00:00:00 | T♄ | 18°00'38" ♍ | -17°11'40" | 00°00'00"  | 00°00'53"  | 0.002  |
| 17/03/2013 00:00:00 | T♄ | 25°21'27" ♉ | 20°13'53"  | -03°07'29" | -01°55'56" | 0.003  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 17/03/2013 00:00:00 | X  | 21°59'31" ♀ | -03°27'43" | -12°56'43" | 00°00'35"  | 97.360 |
| 17/03/2013 00:00:00 | Y  | 22°50'22" ♂ | 06°59'43"  | -11°51'02" | 00°00'28"  | 87.161 |
| 18/03/2013 00:00:00 | ☉  | 27°33'16" ♋ | -00°58'20" | 00°00'00"  | 00°59'41"  | 0.995  |
| 18/03/2013 00:00:00 | ☾  | 08°50'59" ♋ | 19°57'37"  | -01°50'04" | 11°51'29"  | 0.003  |
| 18/03/2013 00:00:00 | ♁  | 05°38'04" ♋ | -08°26'01" | 01°05'09"  | 00°00'59"  | 0.696  |
| 18/03/2013 00:00:00 | ♂  | 24°51'04" ♋ | -03°21'33" | -01°25'52" | 01°14'44"  | 1.719  |
| 18/03/2013 00:00:00 | ♂  | 04°26'57" ♀ | 01°07'20"  | -00°42'12" | 00°46'28"  | 2.384  |
| 18/03/2013 00:00:00 | ♃  | 09°43'43" ♋ | 21°28'47"  | -00°25'52" | 00°08'12"  | 5.304  |
| 18/03/2013 00:00:00 | ♄  | 10°54'09" ♎ | -12°36'09" | 02°37'16"  | -00°02'39" | 9.065  |
| 18/03/2013 00:00:00 | ♅  | 07°51'36" ♀ | 02°30'04"  | -00°40'16" | 00°03'23"  | 21.032 |
| 18/03/2013 00:00:00 | ♆  | 03°44'34" ♋ | -10°42'31" | -00°36'59" | 00°02'07"  | 30.896 |
| 18/03/2013 00:00:00 | ♇  | 11°24'51" ♂ | -19°40'40" | 03°16'46"  | 00°00'47"  | 32.627 |
| 18/03/2013 00:00:00 | ♈  | 18°01'49" ♎ | -17°12'00" | 00°00'00"  | 00°01'18"  | 0.002  |
| 18/03/2013 00:00:00 | ♉  | 10°31'25" ♋ | -02°56'56" | 05°02'33"  | 00°03'44"  | 18.401 |
| 18/03/2013 00:00:00 | ♊  | 20°43'14" ♋ | 20°27'03"  | -02°40'00" | 00°06'39"  | 0.003  |
| 18/03/2013 00:00:00 | T♈ | 18°01'49" ♎ | -17°12'00" | 00°00'00"  | 00°01'18"  | 0.002  |
| 18/03/2013 00:00:00 | T♉ | 23°41'32" ♋ | 20°16'54"  | -03°00'26" | -01°25'42" | 0.003  |
| 18/03/2013 00:00:00 | X  | 22°00'07" ♀ | -03°27'25" | -12°56'37" | 00°00'36"  | 97.367 |
| 18/03/2013 00:00:00 | Y  | 22°50'50" ♂ | 06°59'57"  | -11°50'55" | 00°00'28"  | 87.175 |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 19/03/2013 00:00:00 | ♁ | 28°32'57" ♈ | -00°34'37" | 00°00'00"  | 00°59'39"  | 0.996  |
| 19/03/2013 00:00:00 | ♃ | 20°40'44" ♊ | 20°19'53"  | -02°47'01" | 11°48'53"  | 0.003  |
| 19/03/2013 00:00:00 | ♆ | 05°42'00" ♈ | -08°37'59" | 00°50'44"  | 00°06'50"  | 0.709  |
| 19/03/2013 00:00:00 | ♋ | 26°05'48" ♈ | -02°51'39" | -01°25'36" | 01°14'43"  | 1.720  |
| 19/03/2013 00:00:00 | ♌ | 05°13'24" ♈ | 01°26'15"  | -00°41'39" | 00°46'25"  | 2.385  |
| 19/03/2013 00:00:00 | ♍ | 09°51'59" ♊ | 21°30'11"  | -00°25'41" | 00°08'20"  | 5.320  |
| 19/03/2013 00:00:00 | ♎ | 10°51'27" ♎ | -12°35'09" | 02°37'26"  | -00°02'44" | 9.053  |
| 19/03/2013 00:00:00 | ♏ | 07°55'00" ♈ | 02°31'25"  | -00°40'15" | 00°03'23"  | 21.035 |
| 19/03/2013 00:00:00 | ♐ | 03°46'41" ♈ | -10°41'46" | -00°37'00" | 00°02'06"  | 30.889 |
| 19/03/2013 00:00:00 | ♑ | 11°25'38" ♏ | -19°40'36" | 03°16'46"  | 00°00'45"  | 32.611 |
| 19/03/2013 00:00:00 | ♒ | 18°02'58" ♎ | -17°12'19" | 00°00'00"  | 00°00'50"  | 0.002  |
| 19/03/2013 00:00:00 | ♓ | 10°35'10" ♈ | -02°55'30" | 05°02'35"  | 00°03'43"  | 18.398 |
| 19/03/2013 00:00:00 | ♈ | 20°49'54" ♊ | 20°26'45"  | -02°40'45" | 00°06'39"  | 0.003  |
| 19/03/2013 00:00:00 | ♎ | 18°02'58" ♎ | -17°12'19" | 00°00'00"  | 00°00'50"  | 0.002  |
| 19/03/2013 00:00:00 | ♏ | 22°25'00" ♏ | 20°18'34"  | -02°54'50" | -01°10'21" | 0.003  |
| 19/03/2013 00:00:00 | ♐ | 22°00'43" ♈ | -03°27'07" | -12°56'32" | 00°00'36"  | 97.374 |
| 19/03/2013 00:00:00 | ♑ | 22°51'20" ♏ | 07°00'10"  | -11°50'48" | 00°00'29"  | 87.188 |
| 20/03/2013 00:00:00 | ♁ | 29°32'35" ♈ | -00°10'54" | -00°00'00" | 00°59'37"  | 0.996  |
| 20/03/2013 00:00:00 | ♃ | 02°30'32" ♊ | 19°47'55"  | -03°36'50" | 11°51'35"  | 0.003  |



Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 20/03/2013 00:00:00 | ♀ | 05°51'39" ♈ | -08°47'36" | 00°36'36"  | 00°12'25"  | 0.721  |
| 20/03/2013 00:00:00 | ♀ | 27°20'30" ♈ | -02°21'40" | -01°25'17" | 01°14'42"  | 1.720  |
| 20/03/2013 00:00:00 | ♂ | 05°59'49" ♏ | 01°45'08"  | -00°41'06" | 00°46'23"  | 2.387  |
| 20/03/2013 00:00:00 | ♃ | 10°00'24" ♉ | 21°31'36"  | -00°25'30" | 00°08'28"  | 5.335  |
| 20/03/2013 00:00:00 | ♅ | 10°48'40" ♌ | -12°34'08" | 02°37'37"  | -00°02'49" | 9.042  |
| 20/03/2013 00:00:00 | ♁ | 07°58'24" ♏ | 02°32'46"  | -00°40'14" | 00°03'24"  | 21.038 |
| 20/03/2013 00:00:00 | ♃ | 03°48'47" ♈ | -10°41'01" | -00°37'01" | 00°02'06"  | 30.882 |
| 20/03/2013 00:00:00 | ♃ | 11°26'23" ♉ | -19°40'32" | 03°16'46"  | 00°00'44"  | 32.595 |
| 20/03/2013 00:00:00 | ♁ | 18°03'14" ♌ | -17°12'23" | 00°00'00"  | -00°00'24" | 0.002  |
| 20/03/2013 00:00:00 | ♃ | 10°38'53" ♈ | -02°54'05" | 05°02'37"  | 00°03'42"  | 18.393 |
| 20/03/2013 00:00:00 | ♃ | 20°56'34" ♉ | 20°26'27"  | -02°41'30" | 00°06'39"  | 0.003  |
| 20/03/2013 00:00:00 | ♁ | 18°03'14" ♌ | -17°12'23" | 00°00'00"  | -00°00'24" | 0.002  |
| 20/03/2013 00:00:00 | ♃ | 21°14'16" ♉ | 20°19'35"  | -02°49'33" | -01°14'27" | 0.003  |
| 20/03/2013 00:00:00 | X | 22°01'19" ♏ | -03°26'49" | -12°56'27" | 00°00'36"  | 97.380 |
| 20/03/2013 00:00:00 | Y | 22°51'49" ♏ | 07°00'24"  | -11°50'41" | 00°00'29"  | 87.201 |
| 21/03/2013 00:00:00 | ♁ | 00°32'12" ♏ | 00°12'48"  | -00°00'00" | 00°59'35"  | 0.996  |
| 21/03/2013 00:00:00 | ♃ | 14°25'39" ♉ | 18°23'05"  | -04°17'39" | 11°59'28"  | 0.003  |
| 21/03/2013 00:00:00 | ♀ | 06°06'46" ♈ | -08°54'51" | 00°22'49"  | 00°17'44"  | 0.734  |
| 21/03/2013 00:00:00 | ♀ | 28°35'12" ♈ | -01°51'37" | -01°24'54" | 01°14'41"  | 1.721  |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 21/03/2013 00:00:00 | ♂ | 06°46'12" ♏ | 02°03'59"  | -00°40'33" | 00°46'21"  | 2.389  |
| 21/03/2013 00:00:00 | ♃ | 10°08'56" ♏ | 21°33'01"  | -00°25'20" | 00°08'36"  | 5.350  |
| 21/03/2013 00:00:00 | ♃ | 10°45'49" ♏ | -12°33'05" | 02°37'47"  | -00°02'54" | 9.031  |
| 21/03/2013 00:00:00 | ♃ | 08°01'48" ♏ | 02°34'07"  | -00°40'14" | 00°03'24"  | 21.040 |
| 21/03/2013 00:00:00 | ♃ | 03°50'53" ♏ | -10°40'16" | -00°37'02" | 00°02'05"  | 30.875 |
| 21/03/2013 00:00:00 | ♃ | 11°27'06" ♏ | -19°40'29" | 03°16'46"  | 00°00'42"  | 32.579 |
| 21/03/2013 00:00:00 | ♁ | 18°01'58" ♏ | -17°12'02" | 00°00'00"  | -00°02'10" | 0.002  |
| 21/03/2013 00:00:00 | ♃ | 10°42'35" ♏ | -02°52'39" | 05°02'39"  | 00°03'41"  | 18.389 |
| 21/03/2013 00:00:00 | ♁ | 21°03'14" ♏ | 20°26'08"  | -02°42'15" | 00°06'39"  | 0.003  |
| 21/03/2013 00:00:00 | ♁ | 18°01'58" ♏ | -17°12'02" | 00°00'00"  | -00°02'10" | 0.002  |
| 21/03/2013 00:00:00 | ♁ | 19°49'40" ♏ | 20°20'03"  | -02°43'11" | -01°37'37" | 0.003  |
| 21/03/2013 00:00:00 | X | 22°01'56" ♏ | -03°26'31" | -12°56'22" | 00°00'36"  | 97.387 |
| 21/03/2013 00:00:00 | Y | 22°52'20" ♏ | 07°00'38"  | -11°50'34" | 00°00'30"  | 87.213 |
| 22/03/2013 00:00:00 | ♁ | 01°31'46" ♏ | 00°36'29"  | -00°00'00" | 00°59'32"  | 0.996  |
| 22/03/2013 00:00:00 | ♁ | 26°31'05" ♏ | 16°08'17"  | -04°47'38" | 12°12'06"  | 0.003  |
| 22/03/2013 00:00:00 | ♁ | 06°27'03" ♏ | -08°59'48" | 00°09'27"  | 00°22'47"  | 0.748  |
| 22/03/2013 00:00:00 | ♀ | 29°49'52" ♏ | -01°21'31" | -01°24'28" | 01°14'39"  | 1.721  |
| 22/03/2013 00:00:00 | ♂ | 07°32'32" ♏ | 02°22'47"  | -00°40'00" | 00°46'18"  | 2.391  |
| 22/03/2013 00:00:00 | ♃ | 10°17'36" ♏ | 21°34'27"  | -00°25'09" | 00°08'43"  | 5.365  |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 22/03/2013 00:00:00 | ♃ | 10°42'52" ♍ | -12°32'01" | 02°37'58"  | -00°02'58" | 9.021  |
| 22/03/2013 00:00:00 | ♃ | 08°05'12" ♏ | 02°35'28"  | -00°40'13" | 00°03'24"  | 21.042 |
| 22/03/2013 00:00:00 | ♃ | 03°52'58" ♏ | -10°39'32" | -00°37'04" | 00°02'04"  | 30.867 |
| 22/03/2013 00:00:00 | ♃ | 11°27'47" ♏ | -19°40'25" | 03°16'46"  | 00°00'40"  | 32.562 |
| 22/03/2013 00:00:00 | ♃ | 17°58'49" ♍ | -17°11'09" | 00°00'00"  | -00°04'07" | 0.002  |
| 22/03/2013 00:00:00 | ♃ | 10°46'17" ♏ | -02°51'14" | 05°02'42"  | 00°03'40"  | 18.384 |
| 22/03/2013 00:00:00 | ♃ | 21°09'54" ♏ | 20°25'50"  | -02°43'01" | 00°06'39"  | 0.003  |
| 22/03/2013 00:00:00 | ♃ | 17°58'49" ♍ | -17°11'09" | 00°00'00"  | -00°04'07" | 0.002  |
| 22/03/2013 00:00:00 | ♃ | 17°54'21" ♏ | 20°19'19"  | -02°34'26" | -02°14'33" | 0.003  |
| 22/03/2013 00:00:00 | X | 22°02'33" ♏ | -03°26'13" | -12°56'17" | 00°00'37"  | 97.393 |
| 22/03/2013 00:00:00 | Y | 22°52'50" ♏ | 07°00'52"  | -11°50'28" | 00°00'31"  | 87.226 |
| 23/03/2013 00:00:00 | ♃ | 02°31'17" ♏ | 01°00'09"  | -00°00'00" | 00°59'30"  | 0.997  |
| 23/03/2013 00:00:00 | ♃ | 08°51'11" ♏ | 13°07'58"  | -05°05'01" | 12°28'40"  | 0.003  |
| 23/03/2013 00:00:00 | ♃ | 06°52'15" ♏ | -09°02'30" | -00°03'28" | 00°27'32"  | 0.762  |
| 23/03/2013 00:00:00 | ♃ | 01°04'32" ♏ | -00°51'22" | -01°23'57" | 01°14'38"  | 1.722  |
| 23/03/2013 00:00:00 | ♃ | 08°18'49" ♏ | 02°41'33"  | -00°39'26" | 00°46'16"  | 2.392  |
| 23/03/2013 00:00:00 | ♃ | 10°26'24" ♏ | 21°35'53"  | -00°24'59" | 00°08'51"  | 5.380  |
| 23/03/2013 00:00:00 | ♃ | 10°39'51" ♍ | -12°30'55" | 02°38'08"  | -00°03'03" | 9.010  |
| 23/03/2013 00:00:00 | ♃ | 08°08'37" ♏ | 02°36'49"  | -00°40'13" | 00°03'24"  | 21.044 |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 23/03/2013 00:00:00 | ♁  | 03°55'01" ♈ | -10°38'48" | -00°37'05" | 00°02'03"  | 30.859 |
| 23/03/2013 00:00:00 | ♁  | 11°28'27" ♈ | -19°40'22" | 03°16'46"  | 00°00'38"  | 32.546 |
| 23/03/2013 00:00:00 | ♁  | 17°53'47" ♎ | -17°09'45" | 00°00'00"  | -00°05'52" | 0.002  |
| 23/03/2013 00:00:00 | ♁  | 10°49'57" ♈ | -02°49'49" | 05°02'45"  | 00°03'39"  | 18.379 |
| 23/03/2013 00:00:00 | ♁  | 21°16'34" ♉ | 20°25'31"  | -02°43'46" | 00°06'39"  | 0.003  |
| 23/03/2013 00:00:00 | T♁ | 17°53'47" ♎ | -17°09'45" | 00°00'00"  | -00°05'52" | 0.002  |
| 23/03/2013 00:00:00 | T♁ | 15°19'41" ♉ | 20°15'58"  | -02°22'35" | -02°53'55" | 0.003  |
| 23/03/2013 00:00:00 | X  | 22°03'10" ♈ | -03°25'55" | -12°56'12" | 00°00'37"  | 97.399 |
| 23/03/2013 00:00:00 | Y  | 22°53'22" ♉ | 07°01'05"  | -11°50'21" | 00°00'31"  | 87.238 |
| 24/03/2013 00:00:00 | ☉  | 03°30'47" ♈ | 01°23'47"  | -00°00'00" | 00°59'28"  | 0.997  |
| 24/03/2013 00:00:00 | ☾  | 21°29'22" ♎ | 09°28'07"  | -05°08'10" | 12°48'02"  | 0.003  |
| 24/03/2013 00:00:00 | ♁  | 07°22'04" ♈ | -09°03'00" | -00°15'55" | 00°32'02"  | 0.776  |
| 24/03/2013 00:00:00 | ♀  | 02°19'10" ♈ | -00°21'11" | -01°23'23" | 01°14'37"  | 1.722  |
| 24/03/2013 00:00:00 | ♂  | 09°05'05" ♈ | 03°00'17"  | -00°38'52" | 00°46'13"  | 2.394  |
| 24/03/2013 00:00:00 | ♃  | 10°35'19" ♉ | 21°37'20"  | -00°24'48" | 00°08'58"  | 5.395  |
| 24/03/2013 00:00:00 | ♅  | 10°36'45" ♎ | -12°29'49" | 02°38'17"  | -00°03'08" | 9.000  |
| 24/03/2013 00:00:00 | ♅  | 08°12'02" ♈ | 02°38'10"  | -00°40'13" | 00°03'25"  | 21.046 |
| 24/03/2013 00:00:00 | ♁  | 03°57'04" ♈ | -10°38'05" | -00°37'06" | 00°02'02"  | 30.851 |
| 24/03/2013 00:00:00 | ♁  | 11°29'05" ♈ | -19°40'18" | 03°16'46"  | 00°00'36"  | 32.530 |

Ephemerides year 2013

|                     |   |              |            |            |            |        |
|---------------------|---|--------------|------------|------------|------------|--------|
| 24/03/2013 00:00:00 | ♏ | 17°47'14" ♍r | -17°07'55" | 00°00'00"  | -00°07'06" | 0.002  |
| 24/03/2013 00:00:00 | ♋ | 10°53'36" ♋  | -02°48'24" | 05°02'48"  | 00°03'38"  | 18.374 |
| 24/03/2013 00:00:00 | ♌ | 21°23'14" ♌  | 20°25'11"  | -02°44'31" | 00°06'39"  | 0.003  |
| 24/03/2013 00:00:00 | ♏ | 17°47'14" ♍r | -17°07'55" | 00°00'00"  | -00°07'06" | 0.002  |
| 24/03/2013 00:00:00 | ♌ | 12°11'03" ♌r | 20°08'15"  | -02°07'50" | -03°19'38" | 0.003  |
| 24/03/2013 00:00:00 | X | 22°03'47" ♏  | -03°25'37" | -12°56'07" | 00°00'37"  | 97.404 |
| 24/03/2013 00:00:00 | Y | 22°53'53" ♏  | 07°01'19"  | -11°50'14" | 00°00'32"  | 87.251 |
| 25/03/2013 00:00:00 | ♏ | 04°30'14" ♏  | 01°47'23"  | -00°00'00" | 00°59'26"  | 0.997  |
| 25/03/2013 00:00:00 | ♎ | 04°27'42" ♎  | 05°16'37"  | -04°55'49" | 13°08'43"  | 0.003  |
| 25/03/2013 00:00:00 | ♌ | 07°56'14" ♋  | -09°01'22" | -00°27'52" | 00°36'16"  | 0.790  |
| 25/03/2013 00:00:00 | ♌ | 03°33'47" ♏  | 00°09'01"  | -01°22'45" | 01°14'36"  | 1.723  |
| 25/03/2013 00:00:00 | ♏ | 09°51'17" ♏  | 03°18'57"  | -00°38'18" | 00°46'11"  | 2.396  |
| 25/03/2013 00:00:00 | ♌ | 10°44'21" ♌  | 21°38'47"  | -00°24'38" | 00°09'05"  | 5.410  |
| 25/03/2013 00:00:00 | ♏ | 10°33'35" ♍r | -12°28'41" | 02°38'27"  | -00°03'12" | 8.990  |
| 25/03/2013 00:00:00 | ♌ | 08°15'28" ♏  | 02°39'31"  | -00°40'12" | 00°03'25"  | 21.048 |
| 25/03/2013 00:00:00 | ♌ | 03°59'06" ♋  | -10°37'22" | -00°37'07" | 00°02'01"  | 30.843 |
| 25/03/2013 00:00:00 | ♌ | 11°29'41" ♌  | -19°40'15" | 03°16'47"  | 00°00'34"  | 32.514 |
| 25/03/2013 00:00:00 | ♏ | 17°39'49" ♍r | -17°05'51" | 00°00'00"  | -00°07'34" | 0.002  |
| 25/03/2013 00:00:00 | ♋ | 10°57'13" ♋  | -02°46'59" | 05°02'52"  | 00°03'37"  | 18.369 |

Ephemerides year 2013

|                     |   |             |            |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|------------|--------|
| 25/03/2013 00:00:00 | ☾ | 21°29'54" ♀ | 20°24'52"  | -02°45'16" | 00°06'39"  | 0.003      |        |
| 25/03/2013 00:00:00 | ♄ | 17°39'49" ♀ | -17°05'51" |            | 00°00'00"  | -00°07'34" | 0.002  |
| 25/03/2013 00:00:00 | ♄ | 08°49'49" ♀ | 19°55'43"  |            | -01°51'48" | -03°17'31" | 0.003  |
| 25/03/2013 00:00:00 | X | 22°04'25" ♀ | -03°25'19" |            | -12°56'02" | 00°00'37"  | 97.410 |
| 25/03/2013 00:00:00 | Y | 22°54'26" ♀ | 07°01'33"  |            | -11°50'08" | 00°00'32"  | 87.263 |
| 26/03/2013 00:00:00 | ☉ | 05°29'39" ♀ | 02°10'56"  | -00°00'00" | 00°59'23"  |            | 0.998  |
| 26/03/2013 00:00:00 | ☾ | 17°46'43" ♀ | 00°43'31"  | -04°27'20" | 13°29'04"  |            | 0.003  |
| 26/03/2013 00:00:00 | ♀ | 08°34'32" ♀ | -08°57'39" | -00°39'19" | 00°40'15"  |            | 0.804  |
| 26/03/2013 00:00:00 | ♀ | 04°48'23" ♀ | 00°39'14"  | -01°22'03" | 01°14'35"  |            | 1.723  |
| 26/03/2013 00:00:00 | ♂ | 10°37'27" ♀ | 03°37'35"  | -00°37'44" | 00°46'08"  |            | 2.398  |
| 26/03/2013 00:00:00 | ♃ | 10°53'30" ♀ | 21°40'14"  | -00°24'28" | 00°09'13"  |            | 5.425  |
| 26/03/2013 00:00:00 | ♃ | 10°30'20" ♀ | -12°27'32" | 02°38'36"  | -00°03'16" |            | 8.981  |
| 26/03/2013 00:00:00 | ♃ | 08°18'53" ♀ | 02°40'52"  | -00°40'12" | 00°03'25"  |            | 21.049 |
| 26/03/2013 00:00:00 | ♃ | 04°01'07" ♀ | -10°36'39" | -00°37'08" | 00°02'00"  |            | 30.834 |
| 26/03/2013 00:00:00 | ♃ | 11°30'15" ♀ | -19°40'12" | 03°16'47"  | 00°00'33"  |            | 32.497 |
| 26/03/2013 00:00:00 | ♄ | 17°32'23" ♀ | -17°03'46" | 00°00'00"  | -00°07'09" |            | 0.002  |
| 26/03/2013 00:00:00 | ♃ | 11°00'50" ♀ | -02°45'35" | 05°02'55"  | 00°03'35"  |            | 18.363 |
| 26/03/2013 00:00:00 | ☾ | 21°36'34" ♀ | 20°24'32"  | -02°46'00" | 00°06'39"  |            | 0.003  |
| 26/03/2013 00:00:00 | ♄ | 17°32'23" ♀ | -17°03'46" |            | 00°00'00"  | -00°07'09" | 0.002  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 26/03/2013 00:00:00 | T♄ | 05°46'17" ♀ | 19°40'26"  | -01°36'58" | -02°45'08" | 0.003  |
| 26/03/2013 00:00:00 | X  | 22°05'02" ♀ | -03°25'02" | -12°55'58" | 00°00'37"  | 97.415 |
| 26/03/2013 00:00:00 | Y  | 22°54'59" ♂ | 07°01'47"  | -11°50'02" | 00°00'33"  | 87.274 |
| 27/03/2013 00:00:00 | ☉  | 06°29'02" ♀ | 02°34'27"  | -00°00'00" | 00°59'21"  | 0.998  |
| 27/03/2013 00:00:00 | ☾  | 01°25'11" ♀ | -03°58'32" | -03°43'05" | 13°47'23"  | 0.003  |
| 27/03/2013 00:00:00 | ♀  | 09°16'42" ♀ | -08°51'56" | -00°50'14" | 00°44'01"  | 0.818  |
| 27/03/2013 00:00:00 | ♀  | 06°02'58" ♀ | 01°09'27"  | -01°21'18" | 01°14'34"  | 1.723  |
| 27/03/2013 00:00:00 | ♂  | 11°23'35" ♀ | 03°56'09"  | -00°37'09" | 00°46'06"  | 2.399  |
| 27/03/2013 00:00:00 | ♃  | 11°02'47" ♀ | 21°41'42"  | -00°24'18" | 00°09'20"  | 5.440  |
| 27/03/2013 00:00:00 | ♅  | 10°27'01" ♀ | -12°26'22" | 02°38'45"  | -00°03'21" | 8.971  |
| 27/03/2013 00:00:00 | ♁  | 08°22'18" ♀ | 02°42'14"  | -00°40'12" | 00°03'25"  | 21.050 |
| 27/03/2013 00:00:00 | ♆  | 04°03'07" ♀ | -10°35'56" | -00°37'10" | 00°01'59"  | 30.825 |
| 27/03/2013 00:00:00 | ♁  | 11°30'47" ♂ | -19°40'09" | 03°16'47"  | 00°00'31"  | 32.481 |
| 27/03/2013 00:00:00 | ♁  | 17°25'45" ♀ | -17°01'54" | 00°00'00"  | -00°05'57" | 0.002  |
| 27/03/2013 00:00:00 | ♁  | 11°04'25" ♀ | -02°44'10" | 05°02'59"  | 00°03'34"  | 18.357 |
| 27/03/2013 00:00:00 | ♁  | 21°43'13" ♀ | 20°24'12"  | -02°46'45" | 00°06'39"  | 0.003  |
| 27/03/2013 00:00:00 | T♁ | 17°25'45" ♀ | -17°01'54" | 00°00'00"  | -00°05'57" | 0.002  |
| 27/03/2013 00:00:00 | T♄ | 03°25'41" ♀ | 19°26'13"  | -01°25'34" | -01°54'33" | 0.003  |
| 27/03/2013 00:00:00 | X  | 22°05'40" ♀ | -03°24'44" | -12°55'54" | 00°00'37"  | 97.419 |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 27/03/2013 00:00:00 | Y  | 22°55'32" ♄ | 07°02'01"  | -11°49'55" | 00°00'33"  | 87.286 |
| 28/03/2013 00:00:00 | ☉  | 07°28'23" ♄ | 02°57'54"  | 00°00'00"  | 00°59'19"  | 0.998  |
| 28/03/2013 00:00:00 | ☾  | 15°20'21" ♁ | -08°34'17" | -02°44'44" | 14°02'16"  | 0.002  |
| 28/03/2013 00:00:00 | ♀  | 10°02'31" ♃ | -08°44'16" | -01°00'37" | 00°47'34"  | 0.833  |
| 28/03/2013 00:00:00 | ♀  | 07°17'32" ♄ | 01°39'40"  | -01°20'29" | 01°14'33"  | 1.724  |
| 28/03/2013 00:00:00 | ♂  | 12°09'40" ♄ | 04°14'41"  | -00°36'35" | 00°46'04"  | 2.401  |
| 28/03/2013 00:00:00 | ♃  | 11°12'11" ♁ | 21°43'10"  | -00°24'08" | 00°09'27"  | 5.454  |
| 28/03/2013 00:00:00 | ♅  | 10°23'37" ♄ | -12°25'10" | 02°38'54"  | -00°03'25" | 8.962  |
| 28/03/2013 00:00:00 | ♁  | 08°25'44" ♄ | 02°43'35"  | -00°40'11" | 00°03'25"  | 21.050 |
| 28/03/2013 00:00:00 | ♃  | 04°05'06" ♃ | -10°35'14" | -00°37'11" | 00°01'58"  | 30.816 |
| 28/03/2013 00:00:00 | ♁  | 11°31'17" ♁ | -19°40'06" | 03°16'47"  | 00°00'29"  | 32.464 |
| 28/03/2013 00:00:00 | ♁  | 17°20'38" ♄ | -17°00'28" | 00°00'00"  | -00°04'11" | 0.002  |
| 28/03/2013 00:00:00 | ♃  | 11°07'59" ♃ | -02°42'46" | 05°03'03"  | 00°03'33"  | 18.351 |
| 28/03/2013 00:00:00 | ♀  | 21°49'53" ♁ | 20°23'51"  | -02°47'30" | 00°06'39"  | 0.003  |
| 28/03/2013 00:00:00 | T♁ | 17°20'38" ♄ | -17°00'28" | 00°00'00"  | -00°04'11" | 0.002  |
| 28/03/2013 00:00:00 | T♃ | 01°56'56" ♁ | 19°16'03"  | -01°18'25" | -01°04'31" | 0.003  |
| 28/03/2013 00:00:00 | X  | 22°06'18" ♄ | -03°24'27" | -12°55'49" | 00°00'38"  | 97.424 |
| 28/03/2013 00:00:00 | Y  | 22°56'06" ♄ | 07°02'15"  | -11°49'49" | 00°00'34"  | 87.298 |
| 29/03/2013 00:00:00 | ☉  | 08°27'41" ♄ | 03°21'18"  | 00°00'00"  | 00°59'17"  | 0.998  |



Ephemerides year 2013

|                     |   |           |            |            |            |        |
|---------------------|---|-----------|------------|------------|------------|--------|
| 29/03/2013 00:00:00 | ♃ | 29°28'18" | -12°46'14" | -01°35'21" | 14°12'50"  | 0.002  |
| 29/03/2013 00:00:00 | ♆ | 10°51'46" | -08°34'43" | -01°10'28" | 00°50'54"  | 0.847  |
| 29/03/2013 00:00:00 | ♀ | 08°32'05" | 02°09'51"  | -01°19'37" | 01°14'32"  | 1.724  |
| 29/03/2013 00:00:00 | ♂ | 12°55'43" | 04°33'08"  | -00°36'00" | 00°46'01"  | 2.402  |
| 29/03/2013 00:00:00 | ♃ | 11°21'42" | 21°44'38"  | -00°23'58" | 00°09'34"  | 5.469  |
| 29/03/2013 00:00:00 | ♄ | 10°20'10" | -12°23'58" | 02°39'02"  | -00°03'29" | 8.953  |
| 29/03/2013 00:00:00 | ♁ | 08°29'09" | 02°44'55"  | -00°40'12" | 00°03'24"  | 21.051 |
| 29/03/2013 00:00:00 | ♆ | 04°07'05" | -10°34'32" | -00°37'12" | 00°01'57"  | 30.807 |
| 29/03/2013 00:00:00 | ♁ | 11°31'46" | -19°40'03" | 03°16'48"  | 00°00'27"  | 32.448 |
| 29/03/2013 00:00:00 | ♁ | 17°17'26" | -16°59'33" | 00°00'00"  | -00°02'12" | 0.002  |
| 29/03/2013 00:00:00 | ♁ | 11°11'32" | -02°41'22" | 05°03'08"  | 00°03'32"  | 18.344 |
| 29/03/2013 00:00:00 | ♁ | 21°56'33" | 20°23'31"  | -02°48'14" | 00°06'39"  | 0.003  |
| 29/03/2013 00:00:00 | ♁ | 17°17'26" | -16°59'33" | 00°00'00"  | -00°02'12" | 0.002  |
| 29/03/2013 00:00:00 | ♁ | 01°11'11" | 19°10'23"  | -01°14'50" | -00°30'31" | 0.003  |
| 29/03/2013 00:00:00 | X | 22°06'56" | -03°24'09" | -12°55'45" | 00°00'38"  | 97.428 |
| 29/03/2013 00:00:00 | Y | 22°56'40" | 07°02'29"  | -11°49'43" | 00°00'34"  | 87.309 |
| 30/03/2013 00:00:00 | ♁ | 09°26'58" | 03°44'38"  | 00°00'00"  | 00°59'16"  | 0.999  |
| 30/03/2013 00:00:00 | ♃ | 13°44'31" | -16°16'01" | -00°19'12" | 14°18'50"  | 0.002  |
| 30/03/2013 00:00:00 | ♆ | 11°44'16" | -08°23'20" | -01°19'47" | 00°54'04"  | 0.862  |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 30/03/2013 00:00:00 | ♀ | 09°46'37" ♏ | 02°39'59"  | -01°18'40" | 01°14'31"  | 1.724  |
| 30/03/2013 00:00:00 | ♂ | 13°41'44" ♏ | 04°51'33"  | -00°35'25" | 00°45'59"  | 2.404  |
| 30/03/2013 00:00:00 | ♃ | 11°31'19" ♁ | 21°46'06"  | -00°23'48" | 00°09'40"  | 5.483  |
| 30/03/2013 00:00:00 | ♅ | 10°16'39" ♍ | -12°22'45" | 02°39'11"  | -00°03'33" | 8.945  |
| 30/03/2013 00:00:00 | ♁ | 08°32'35" ♏ | 02°46'17"  | -00°40'11" | 00°03'25"  | 21.051 |
| 30/03/2013 00:00:00 | ♃ | 04°09'02" ♁ | -10°33'51" | -00°37'13" | 00°01'56"  | 30.797 |
| 30/03/2013 00:00:00 | ♁ | 11°32'12" ♏ | -19°40'01" | 03°16'48"  | 00°00'25"  | 32.431 |
| 30/03/2013 00:00:00 | ♁ | 17°16'11" ♍ | -16°59'12" | 00°00'00"  | -00°00'22" | 0.002  |
| 30/03/2013 00:00:00 | ♃ | 11°15'03" ♁ | -02°39'58" | 05°03'13"  | 00°03'30"  | 18.338 |
| 30/03/2013 00:00:00 | ♁ | 22°03'13" ♁ | 20°23'10"  | -02°48'59" | 00°06'40"  | 0.003  |
| 30/03/2013 00:00:00 | ♁ | 17°16'11" ♍ | -16°59'12" | 00°00'00"  | -00°00'22" | 0.002  |
| 30/03/2013 00:00:00 | ♁ | 00°48'12" ♁ | 19°07'26"  | -01°13'04" | -00°19'09" | 0.003  |
| 30/03/2013 00:00:00 | X | 22°07'35" ♏ | -03°23'52" | -12°55'41" | 00°00'38"  | 97.432 |
| 30/03/2013 00:00:00 | Y | 22°57'15" ♏ | 07°02'43"  | -11°49'37" | 00°00'35"  | 87.320 |
| 31/03/2013 00:00:00 | ♁ | 10°26'14" ♏ | 04°07'54"  | 00°00'00"  | 00°59'14"  | 0.999  |
| 31/03/2013 00:00:00 | ♃ | 28°04'33" ♍ | -18°46'35" | 00°58'36"  | 14°20'34"  | 0.002  |
| 31/03/2013 00:00:00 | ♃ | 12°39'51" ♁ | -08°10'10" | -01°28'33" | 00°57'03"  | 0.877  |
| 31/03/2013 00:00:00 | ♀ | 11°01'08" ♏ | 03°10'05"  | -01°17'41" | 01°14'30"  | 1.724  |
| 31/03/2013 00:00:00 | ♂ | 14°27'42" ♏ | 05°09'53"  | -00°34'50" | 00°45'56"  | 2.406  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 31/03/2013 00:00:00 | ♃  | 11°41'03" ♀ | 21°47'35"  | -00°23'38" | 00°09'47"  | 5.498  |
| 31/03/2013 00:00:00 | ♅  | 10°13'03" ♃ | -12°21'30" | 02°39'19"  | -00°03'37" | 8.936  |
| 31/03/2013 00:00:00 | ♁  | 08°36'00" ♃ | 02°47'38"  | -00°40'11" | 00°03'25"  | 21.051 |
| 31/03/2013 00:00:00 | ♆  | 04°10'58" ♃ | -10°33'10" | -00°37'15" | 00°01'55"  | 30.787 |
| 31/03/2013 00:00:00 | ♁  | 11°32'37" ♃ | -19°39'58" | 03°16'48"  | 00°00'24"  | 32.415 |
| 31/03/2013 00:00:00 | ♄  | 17°16'30" ♃ | -16°59'18" | 00°00'00"  | 00°00'55"  | 0.002  |
| 31/03/2013 00:00:00 | ♅  | 11°18'33" ♃ | -02°38'35" | 05°03'18"  | 00°03'29"  | 18.331 |
| 31/03/2013 00:00:00 | ♁  | 22°09'53" ♀ | 20°22'49"  | -02°49'43" | 00°06'40"  | 0.003  |
| 31/03/2013 00:00:00 | ♄♁ | 17°16'30" ♃ | -16°59'18" | 00°00'00"  | 00°00'55"  | 0.002  |
| 31/03/2013 00:00:00 | ♁♅ | 00°26'56" ♀ | 19°04'48"  | -01°11'16" | -00°25'03" | 0.003  |
| 31/03/2013 00:00:00 | X  | 22°08'13" ♃ | -03°23'34" | -12°55'37" | 00°00'38"  | 97.436 |
| 31/03/2013 00:00:00 | Y  | 22°57'51" ♃ | 07°02'57"  | -11°49'32" | 00°00'35"  | 87.331 |
| 01/04/2013 00:00:00 | ♁  | 11°25'27" ♃ | 04°31'06"  | 00°00'00"  | 00°59'12"  | 0.999  |
| 01/04/2013 00:00:00 | ♃  | 12°24'30" ♃ | -20°05'02" | 02°12'50"  | 14°18'47"  | 0.002  |
| 01/04/2013 00:00:00 | ♁  | 13°38'20" ♃ | -07°55'17" | -01°36'47" | 00°59'53"  | 0.891  |
| 01/04/2013 00:00:00 | ♁  | 12°15'39" ♃ | 03°40'07"  | -01°16'38" | 01°14'29"  | 1.724  |
| 01/04/2013 00:00:00 | ♁  | 15°13'37" ♃ | 05°28'09"  | -00°34'15" | 00°45'54"  | 2.407  |
| 01/04/2013 00:00:00 | ♃  | 11°50'54" ♀ | 21°49'04"  | -00°23'28" | 00°09'54"  | 5.512  |
| 01/04/2013 00:00:00 | ♅  | 10°09'24" ♃ | -12°20'15" | 02°39'26"  | -00°03'40" | 8.928  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 01/04/2013 00:00:00 | ♃  | 08°39'26" ♀ | 02°48'59"  | -00°40'10" | 00°03'25"  | 21.050 |
| 01/04/2013 00:00:00 | ♃  | 04°12'53" ♀ | -10°32'29" | -00°37'16" | 00°01'54"  | 30.777 |
| 01/04/2013 00:00:00 | ♃  | 11°33'01" ♀ | -19°39'56" | 03°16'49"  | 00°00'22"  | 32.398 |
| 01/04/2013 00:00:00 | ♃  | 17°17'47" ♀ | -16°59'39" | 00°00'00"  | 00°01'28"  | 0.002  |
| 01/04/2013 00:00:00 | ♃  | 11°22'02" ♀ | -02°37'12" | 05°03'23"  | 00°03'27"  | 18.323 |
| 01/04/2013 00:00:00 | ♃  | 22°16'34" ♀ | 20°22'28"  | -02°50'28" | 00°06'40"  | 0.003  |
| 01/04/2013 00:00:00 | T♃ | 17°17'47" ♀ | -16°59'39" | 00°00'00"  | 00°01'28"  | 0.002  |
| 01/04/2013 00:00:00 | T♃ | 29°58'45" ♀ | 19°01'23"  | -01°08'45" | -00°28'35" | 0.003  |
| 01/04/2013 00:00:00 | X  | 22°08'52" ♀ | -03°23'17" | -12°55'34" | 00°00'38"  | 97.439 |
| 01/04/2013 00:00:00 | Y  | 22°58'27" ♀ | 07°03'11"  | -11°49'26" | 00°00'36"  | 87.341 |
| 02/04/2013 00:00:00 | ♃  | 12°24'39" ♀ | 04°54'13"  | 00°00'00"  | 00°59'10"  | 1.000  |
| 02/04/2013 00:00:00 | ♃  | 26°41'15" ♀ | -20°05'10" | 03°18'33"  | 14°14'18"  | 0.002  |
| 02/04/2013 00:00:00 | ♃  | 14°39'34" ♀ | -07°38'44" | -01°44'28" | 01°02'34"  | 0.906  |
| 02/04/2013 00:00:00 | ♃  | 13°30'08" ♀ | 04°10'05"  | -01°15'31" | 01°14'29"  | 1.724  |
| 02/04/2013 00:00:00 | ♃  | 15°59'31" ♀ | 05°46'22"  | -00°33'39" | 00°45'51"  | 2.409  |
| 02/04/2013 00:00:00 | ♃  | 12°00'52" ♀ | 21°50'33"  | -00°23'18" | 00°10'00"  | 5.526  |
| 02/04/2013 00:00:00 | ♃  | 10°05'42" ♀ | -12°18'58" | 02°39'34"  | -00°03'44" | 8.920  |
| 02/04/2013 00:00:00 | ♃  | 08°42'52" ♀ | 02°50'20"  | -00°40'10" | 00°03'25"  | 21.050 |
| 02/04/2013 00:00:00 | ♃  | 04°14'47" ♀ | -10°31'49" | -00°37'17" | 00°01'53"  | 30.767 |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 02/04/2013 00:00:00 | ♁ | 11°33'22" ♍ | -19°39'54" | 03°16'49"  | 00°00'20"  | 32.382 |
| 02/04/2013 00:00:00 | ♁ | 17°19'12" ♎ | -17°00'03" | 00°00'00"  | 00°01'12"  | 0.002  |
| 02/04/2013 00:00:00 | ♁ | 11°25'29" ♉ | -02°35'49" | 05°03'28"  | 00°03'26"  | 18.316 |
| 02/04/2013 00:00:00 | ♁ | 22°23'14" ♋ | 20°22'06"  | -02°51'12" | 00°06'40"  | 0.003  |
| 02/04/2013 00:00:00 | ♁ | 17°19'12" ♎ | -17°00'03" | 00°00'00"  | 00°01'12"  | 0.002  |
| 02/04/2013 00:00:00 | ♁ | 29°40'12" ♄ | 18°59'09"  | -01°07'01" | -00°01'11" | 0.003  |
| 02/04/2013 00:00:00 | X | 22°09'31" ♄ | -03°23'00" | -12°55'30" | 00°00'38"  | 97.442 |
| 02/04/2013 00:00:00 | Y | 22°59'03" ♄ | 07°03'25"  | -11°49'20" | 00°00'36"  | 87.352 |
| 03/04/2013 00:00:00 | ♁ | 13°23'49" ♄ | 05°17'15"  | 00°00'00"  | 00°59'09"  | 1.000  |
| 03/04/2013 00:00:00 | ♁ | 10°52'28" ♍ | -18°48'35" | 04°11'39"  | 14°07'51"  | 0.002  |
| 03/04/2013 00:00:00 | ♁ | 15°43'26" ♉ | -07°20'34" | -01°51'36" | 01°05'07"  | 0.920  |
| 03/04/2013 00:00:00 | ♁ | 14°44'37" ♄ | 04°39'58"  | -01°14'21" | 01°14'28"  | 1.724  |
| 03/04/2013 00:00:00 | ♁ | 16°45'21" ♄ | 06°04'30"  | -00°33'04" | 00°45'49"  | 2.411  |
| 03/04/2013 00:00:00 | ♁ | 12°10'56" ♋ | 21°52'02"  | -00°23'09" | 00°10'07"  | 5.540  |
| 03/04/2013 00:00:00 | ♁ | 10°01'55" ♎ | -12°17'41" | 02°39'41"  | -00°03'48" | 8.913  |
| 03/04/2013 00:00:00 | ♁ | 08°46'17" ♄ | 02°51'41"  | -00°40'10" | 00°03'25"  | 21.049 |
| 03/04/2013 00:00:00 | ♁ | 04°16'40" ♉ | -10°31'09" | -00°37'19" | 00°01'52"  | 30.757 |
| 03/04/2013 00:00:00 | ♁ | 11°33'41" ♍ | -19°39'52" | 03°16'49"  | 00°00'18"  | 32.365 |
| 03/04/2013 00:00:00 | ♁ | 17°19'59" ♎ | -17°00'16" | 00°00'00"  | 00°00'15"  | 0.002  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 03/04/2013 00:00:00 | ♄  | 11°28'55" ♈ | -02°34'26" | 05°03'34"  | 00°03'24"  | 18.308 |
| 03/04/2013 00:00:00 | ♁  | 22°29'54" ♉ | 20°21'44"  | -02°51'56" | 00°06'40"  | 0.003  |
| 03/04/2013 00:00:00 | ♄♁ | 17°19'59" ♎ | -17°00'16" | 00°00'00"  | 00°00'15"  | 0.002  |
| 03/04/2013 00:00:00 | ♁♄ | 00°12'44" ♉ | 19°03'14"  | -01°09'51" | 01°13'58"  | 0.003  |
| 03/04/2013 00:00:00 | X  | 22°10'10" ♎ | -03°22'42" | -12°55'27" | 00°00'39"  | 97.445 |
| 03/04/2013 00:00:00 | Y  | 22°59'40" ♉ | 07°03'39"  | -11°49'15" | 00°00'37"  | 87.362 |
| 04/04/2013 00:00:00 | ♁  | 14°22'57" ♎ | 05°40'11"  | 00°00'00"  | 00°59'07"  | 1.000  |
| 04/04/2013 00:00:00 | ♃  | 24°56'27" ♉ | -16°23'46" | 04°49'08"  | 13°59'53"  | 0.002  |
| 04/04/2013 00:00:00 | ♁  | 16°49'47" ♈ | -07°00'50" | -01°58'13" | 01°07'33"  | 0.935  |
| 04/04/2013 00:00:00 | ♁  | 15°59'05" ♎ | 05°09'45"  | -01°13'08" | 01°14'27"  | 1.724  |
| 04/04/2013 00:00:00 | ♁  | 17°31'10" ♎ | 06°22'34"  | -00°32'28" | 00°45'46"  | 2.412  |
| 04/04/2013 00:00:00 | ♁  | 12°21'06" ♉ | 21°53'31"  | -00°22'59" | 00°10'13"  | 5.554  |
| 04/04/2013 00:00:00 | ♁  | 09°58'05" ♎ | -12°16'23" | 02°39'48"  | -00°03'51" | 8.905  |
| 04/04/2013 00:00:00 | ♁  | 08°49'42" ♎ | 02°53'02"  | -00°40'10" | 00°03'25"  | 21.047 |
| 04/04/2013 00:00:00 | ♁  | 04°18'31" ♈ | -10°30'29" | -00°37'20" | 00°01'51"  | 30.746 |
| 04/04/2013 00:00:00 | ♁  | 11°33'59" ♉ | -19°39'50" | 03°16'49"  | 00°00'16"  | 32.349 |
| 04/04/2013 00:00:00 | ♁  | 17°19'34" ♎ | -17°00'09" | 00°00'00"  | -00°01'08" | 0.002  |
| 04/04/2013 00:00:00 | ♄  | 11°32'19" ♈ | -02°33'04" | 05°03'40"  | 00°03'23"  | 18.300 |
| 04/04/2013 00:00:00 | ♁  | 22°36'34" ♉ | 20°21'22"  | -02°52'40" | 00°06'40"  | 0.003  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 04/04/2013 00:00:00 | T♄ | 17°19'34" ♍ | -17°00'09" | 00°00'00"  | -00°01'08" | 0.002  |
| 04/04/2013 00:00:00 | T♄ | 02°19'15" ♍ | 19°17'51"  | -01°21'04" | 03°01'29"  | 0.003  |
| 04/04/2013 00:00:00 | X  | 22°10'49" ♀ | -03°22'25" | -12°55'24" | 00°00'39"  | 97.447 |
| 04/04/2013 00:00:00 | Y  | 23°00'17" ♄ | 07°03'53"  | -11°49'09" | 00°00'37"  | 87.372 |
| 05/04/2013 00:00:00 | ☉  | 15°22'03" ♀ | 06°03'01"  | 00°00'00"  | 00°59'05"  | 1.000  |
| 05/04/2013 00:00:00 | ☾  | 08°51'50" ♁ | -13°03'47" | 05°09'10"  | 13°50'39"  | 0.003  |
| 05/04/2013 00:00:00 | ☿  | 17°58'31" ♀ | -06°39'34" | -02°04'17" | 01°09'53"  | 0.950  |
| 05/04/2013 00:00:00 | ♀  | 17°13'31" ♀ | 05°39'25"  | -01°11'51" | 01°14'26"  | 1.724  |
| 05/04/2013 00:00:00 | ♂  | 18°16'55" ♀ | 06°40'33"  | -00°31'52" | 00°45'44"  | 2.414  |
| 05/04/2013 00:00:00 | ♃  | 12°31'23" ♍ | 21°55'00"  | -00°22'50" | 00°10'19"  | 5.567  |
| 05/04/2013 00:00:00 | ♅  | 09°54'12" ♍ | -12°15'04" | 02°39'54"  | -00°03'54" | 8.898  |
| 05/04/2013 00:00:00 | ♁  | 08°53'07" ♀ | 02°54'23"  | -00°40'10" | 00°03'24"  | 21.046 |
| 05/04/2013 00:00:00 | ♂  | 04°20'22" ♀ | -10°29'51" | -00°37'22" | 00°01'49"  | 30.735 |
| 05/04/2013 00:00:00 | ♁  | 11°34'14" ♄ | -19°39'49" | 03°16'50"  | 00°00'14"  | 32.332 |
| 05/04/2013 00:00:00 | ♁  | 17°17'40" ♍ | -16°59'37" | 00°00'00"  | -00°02'37" | 0.002  |
| 05/04/2013 00:00:00 | ♁  | 11°35'41" ♀ | -02°31'42" | 05°03'46"  | 00°03'21"  | 18.292 |
| 05/04/2013 00:00:00 | ♁  | 22°43'14" ♍ | 20°21'00"  | -02°53'24" | 00°06'40"  | 0.003  |
| 05/04/2013 00:00:00 | T♄ | 17°17'40" ♍ | -16°59'37" | 00°00'00"  | -00°02'37" | 0.002  |
| 05/04/2013 00:00:00 | T♄ | 06°13'23" ♍ | 19°40'30"  | -01°41'38" | 04°42'13"  | 0.003  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 05/04/2013 00:00:00 | X  | 22°11'28" ♀ | -03°22'08" | -12°55'20" | 00°00'39"  | 97.450 |
| 05/04/2013 00:00:00 | Y  | 23°00'55" ♂ | 07°04'07"  | -11°49'04" | 00°00'37"  | 87.382 |
| 06/04/2013 00:00:00 | ☉  | 16°21'08" ♀ | 06°25'46"  | 00°00'00"  | 00°59'03"  | 1.001  |
| 06/04/2013 00:00:00 | ☾  | 22°37'21" ♁ | -09°03'47" | 05°11'09"  | 13°40'08"  | 0.003  |
| 06/04/2013 00:00:00 | ♀  | 19°09'31" ♀ | -06°16'49" | -02°09'49" | 01°12'06"  | 0.964  |
| 06/04/2013 00:00:00 | ♀  | 18°27'57" ♀ | 06°08'58"  | -01°10'32" | 01°14'25"  | 1.724  |
| 06/04/2013 00:00:00 | ♂  | 19°02'38" ♀ | 06°58'27"  | -00°31'16" | 00°45'41"  | 2.415  |
| 06/04/2013 00:00:00 | ♃  | 12°41'45" ♀ | 21°56'30"  | -00°22'40" | 00°10'25"  | 5.581  |
| 06/04/2013 00:00:00 | ♅  | 09°50'16" ♁ | -12°13'44" | 02°40'01"  | -00°03'58" | 8.891  |
| 06/04/2013 00:00:00 | ♁  | 08°56'32" ♀ | 02°55'43"  | -00°40'10" | 00°03'24"  | 21.044 |
| 06/04/2013 00:00:00 | ♃  | 04°22'11" ♀ | -10°29'12" | -00°37'23" | 00°01'48"  | 30.724 |
| 06/04/2013 00:00:00 | ♁  | 11°34'28" ♂ | -19°39'47" | 03°16'50"  | 00°00'12"  | 32.316 |
| 06/04/2013 00:00:00 | ♁  | 17°14'24" ♁ | -16°58'42" | 00°00'00"  | -00°03'51" | 0.002  |
| 06/04/2013 00:00:00 | ♃  | 11°39'02" ♀ | -02°30'21" | 05°03'52"  | 00°03'19"  | 18.284 |
| 06/04/2013 00:00:00 | ♁  | 22°49'54" ♀ | 20°20'37"  | -02°54'08" | 00°06'40"  | 0.003  |
| 06/04/2013 00:00:00 | T♁ | 17°14'24" ♁ | -16°58'42" | 00°00'00"  | -00°03'51" | 0.002  |
| 06/04/2013 00:00:00 | T♃ | 11°29'23" ♀ | 20°01'57"  | -02°08'39" | 05°40'48"  | 0.003  |
| 06/04/2013 00:00:00 | X  | 22°12'08" ♀ | -03°21'51" | -12°55'17" | 00°00'39"  | 97.452 |
| 06/04/2013 00:00:00 | Y  | 23°01'33" ♂ | 07°04'21"  | -11°48'59" | 00°00'38"  | 87.391 |



Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 07/04/2013 00:00:00 | ☉ | 17°20'11" ♈ | 06°48'23"  | 00°00'00"  | 00°59'01"  | 1.001  |
| 07/04/2013 00:00:00 | ☾ | 06°11'41" ♈ | -04°39'14" | 04°55'37"  | 13°28'18"  | 0.003  |
| 07/04/2013 00:00:00 | ♁ | 20°22'43" ♈ | -05°52'38" | -02°14'49" | 01°14'15"  | 0.978  |
| 07/04/2013 00:00:00 | ♂ | 19°42'22" ♈ | 06°38'23"  | -01°09'09" | 01°14'24"  | 1.723  |
| 07/04/2013 00:00:00 | ♂ | 19°48'19" ♈ | 07°16'16"  | -00°30'40" | 00°45'39"  | 2.417  |
| 07/04/2013 00:00:00 | ♃ | 12°52'14" ♈ | 21°57'59"  | -00°22'31" | 00°10'31"  | 5.594  |
| 07/04/2013 00:00:00 | ♄ | 09°46'16" ♎ | -12°12'24" | 02°40'07"  | -00°04'01" | 8.885  |
| 07/04/2013 00:00:00 | ♅ | 08°59'56" ♈ | 02°57'04"  | -00°40'10" | 00°03'24"  | 21.042 |
| 07/04/2013 00:00:00 | ♆ | 04°23'59" ♈ | -10°28'34" | -00°37'24" | 00°01'47"  | 30.713 |
| 07/04/2013 00:00:00 | ♇ | 11°34'40" ♁ | -19°39'46" | 03°16'50"  | 00°00'10"  | 32.299 |
| 07/04/2013 00:00:00 | ♈ | 17°10'07" ♎ | -16°57'29" | 00°00'00"  | -00°04'35" | 0.002  |
| 07/04/2013 00:00:00 | ♉ | 11°42'21" ♈ | -02°29'00" | 05°03'59"  | 00°03'18"  | 18.275 |
| 07/04/2013 00:00:00 | ♊ | 22°56'35" ♈ | 20°20'15"  | -02°54'52" | 00°06'40"  | 0.003  |
| 07/04/2013 00:00:00 | ♋ | 17°10'07" ♎ | -16°57'29" | 00°00'00"  | -00°04'35" | 0.002  |
| 07/04/2013 00:00:00 | ♌ | 17°15'46" ♈ | 20°13'11"  | -02°37'04" | 05°42'25"  | 0.003  |
| 07/04/2013 00:00:00 | ♍ | 22°12'47" ♈ | -03°21'35" | -12°55'15" | 00°00'39"  | 97.453 |
| 07/04/2013 00:00:00 | ♎ | 23°02'12" ♁ | 07°04'35"  | -11°48'54" | 00°00'38"  | 87.401 |
| 08/04/2013 00:00:00 | ☉ | 18°19'11" ♈ | 07°10'54"  | 00°00'00"  | 00°58'59"  | 1.001  |
| 08/04/2013 00:00:00 | ☾ | 19°33'33" ♈ | -00°04'56" | 04°24'07"  | 13°15'14"  | 0.003  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 08/04/2013 00:00:00 | ♀  | 21°38'01" ♈ | -05°27'02" | -02°19'18" | 01°16'19"  | 0.993  |
| 08/04/2013 00:00:00 | ♀  | 20°56'46" ♈ | 07°07'40"  | -01°07'43" | 01°14'23"  | 1.723  |
| 08/04/2013 00:00:00 | ♂  | 20°33'57" ♈ | 07°34'00"  | -00°30'04" | 00°45'36"  | 2.418  |
| 08/04/2013 00:00:00 | ♃  | 13°02'48" ♈ | 21°59'27"  | -00°22'22" | 00°10'37"  | 5.608  |
| 08/04/2013 00:00:00 | ♅  | 09°42'13" ♎ | -12°11'02" | 02°40'12"  | -00°04'04" | 8.879  |
| 08/04/2013 00:00:00 | ♁  | 09°03'20" ♈ | 02°58'24"  | -00°40'10" | 00°03'23"  | 21.039 |
| 08/04/2013 00:00:00 | ♆  | 04°25'45" ♈ | -10°27'57" | -00°37'26" | 00°01'45"  | 30.701 |
| 08/04/2013 00:00:00 | ♁  | 11°34'50" ♁ | -19°39'45" | 03°16'50"  | 00°00'08"  | 32.283 |
| 08/04/2013 00:00:00 | ♁  | 17°05'25" ♎ | -16°56'10" | 00°00'00"  | -00°04'41" | 0.002  |
| 08/04/2013 00:00:00 | ♂  | 11°45'38" ♈ | -02°27'39" | 05°04'05"  | 00°03'16"  | 18.267 |
| 08/04/2013 00:00:00 | ♁  | 23°03'15" ♈ | 20°19'52"  | -02°55'35" | 00°06'40"  | 0.003  |
| 08/04/2013 00:00:00 | T♁ | 17°05'25" ♎ | -16°56'10" | 00°00'00"  | -00°04'41" | 0.002  |
| 08/04/2013 00:00:00 | T♁ | 22°36'54" ♈ | 20°11'59"  | -03°02'05" | 04°52'27"  | 0.003  |
| 08/04/2013 00:00:00 | X  | 22°13'26" ♈ | -03°21'18" | -12°55'12" | 00°00'39"  | 97.455 |
| 08/04/2013 00:00:00 | Y  | 23°02'51" ♁ | 07°04'49"  | -11°48'49" | 00°00'39"  | 87.410 |
| 09/04/2013 00:00:00 | ☉  | 19°18'11" ♈ | 07°33'17"  | 00°00'00"  | 00°58'58"  | 1.002  |
| 09/04/2013 00:00:00 | ☾  | 02°41'49" ♈ | 04°25'21"  | 03°39'05"  | 13°01'07"  | 0.003  |
| 09/04/2013 00:00:00 | ♀  | 22°55'20" ♈ | -05°00'05" | -02°23'14" | 01°18'19"  | 1.007  |
| 09/04/2013 00:00:00 | ♀  | 22°11'09" ♈ | 07°36'46"  | -01°06'14" | 01°14'22"  | 1.723  |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 09/04/2013 00:00:00 | ♂ | 21°19'32" ♏ | 07°51'39"  | -00°29'27" | 00°45'33"  | 2.420  |
| 09/04/2013 00:00:00 | ♃ | 13°13'29" ♏ | 22°00'56"  | -00°22'13" | 00°10'43"  | 5.621  |
| 09/04/2013 00:00:00 | ♃ | 09°38'07" ♎ | -12°09'40" | 02°40'18"  | -00°04'07" | 8.873  |
| 09/04/2013 00:00:00 | ♃ | 09°06'43" ♏ | 02°59'44"  | -00°40'10" | 00°03'23"  | 21.037 |
| 09/04/2013 00:00:00 | ♃ | 04°27'30" ♏ | -10°27'20" | -00°37'27" | 00°01'44"  | 30.689 |
| 09/04/2013 00:00:00 | ♃ | 11°34'58" ♏ | -19°39'44" | 03°16'51"  | 00°00'07"  | 32.267 |
| 09/04/2013 00:00:00 | ♁ | 17°00'56" ♎ | -16°54'53" | 00°00'00"  | -00°04'10" | 0.003  |
| 09/04/2013 00:00:00 | ♃ | 11°48'53" ♏ | -02°26'19" | 05°04'12"  | 00°03'14"  | 18.258 |
| 09/04/2013 00:00:00 | ♁ | 23°09'55" ♏ | 20°19'28"  | -02°56'19" | 00°06'40"  | 0.003  |
| 09/04/2013 00:00:00 | ♁ | 17°00'56" ♎ | -16°54'53" | 00°00'00"  | -00°04'10" | 0.003  |
| 09/04/2013 00:00:00 | ♁ | 26°49'16" ♏ | 20°03'07"  | -03°20'48" | 03°28'24"  | 0.003  |
| 09/04/2013 00:00:00 | X | 22°14'05" ♏ | -03°21'01" | -12°55'09" | 00°00'39"  | 97.456 |
| 09/04/2013 00:00:00 | Y | 23°03'30" ♏ | 07°05'03"  | -11°48'44" | 00°00'39"  | 87.419 |
| 10/04/2013 00:00:00 | ♁ | 20°17'08" ♏ | 07°55'33"  | 00°00'00"  | 00°58'56"  | 1.002  |
| 10/04/2013 00:00:00 | ♁ | 15°35'38" ♏ | 08°39'04"  | 02°43'31"  | 12°46'27"  | 0.003  |
| 10/04/2013 00:00:00 | ♁ | 24°14'38" ♏ | -04°31'48" | -02°26'39" | 01°20'15"  | 1.021  |
| 10/04/2013 00:00:00 | ♀ | 23°25'31" ♏ | 08°05'43"  | -01°04'42" | 01°14'21"  | 1.722  |
| 10/04/2013 00:00:00 | ♂ | 22°05'04" ♏ | 08°09'13"  | -00°28'51" | 00°45'31"  | 2.421  |
| 10/04/2013 00:00:00 | ♃ | 13°24'15" ♏ | 22°02'25"  | -00°22'04" | 00°10'48"  | 5.634  |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 10/04/2013 00:00:00 | ♃ | 09°33'59" ♎ | -12°08'18" | 02°40'23"  | -00°04'09" | 8.867  |
| 10/04/2013 00:00:00 | ♃ | 09°10'06" ♎ | 03°01'03"  | -00°40'10" | 00°03'22"  | 21.034 |
| 10/04/2013 00:00:00 | ♃ | 04°29'14" ♎ | -10°26'43" | -00°37'29" | 00°01'43"  | 30.677 |
| 10/04/2013 00:00:00 | ♃ | 11°35'04" ♎ | -19°39'43" | 03°16'51"  | 00°00'05"  | 32.250 |
| 10/04/2013 00:00:00 | ♃ | 16°57'13" ♎ | -16°53'50" | 00°00'00"  | -00°03'11" | 0.003  |
| 10/04/2013 00:00:00 | ♃ | 11°52'07" ♎ | -02°25'00" | 05°04'20"  | 00°03'12"  | 18.248 |
| 10/04/2013 00:00:00 | ♃ | 23°16'35" ♎ | 20°19'05"  | -02°57'03" | 00°06'40"  | 0.003  |
| 10/04/2013 00:00:00 | ♃ | 16°57'13" ♎ | -16°53'50" | 00°00'00"  | -00°03'11" | 0.003  |
| 10/04/2013 00:00:00 | ♃ | 29°29'46" ♎ | 19°53'45"  | -03°32'20" | 01°52'35"  | 0.003  |
| 10/04/2013 00:00:00 | X | 22°14'45" ♎ | -03°20'45" | -12°55'07" | 00°00'39"  | 97.456 |
| 10/04/2013 00:00:00 | Y | 23°04'10" ♎ | 07°05'17"  | -11°48'40" | 00°00'39"  | 87.427 |
| 11/04/2013 00:00:00 | ♃ | 21°16'03" ♎ | 08°17'41"  | 00°00'00"  | 00°58'54"  | 1.002  |
| 11/04/2013 00:00:00 | ♃ | 28°14'46" ♎ | 12°25'03"  | 01°40'46"  | 12°31'52"  | 0.003  |
| 11/04/2013 00:00:00 | ♃ | 25°35'50" ♎ | -04°02'13" | -02°29'33" | 01°22'08"  | 1.035  |
| 11/04/2013 00:00:00 | ♃ | 24°39'51" ♎ | 08°34'28"  | -01°03'07" | 01°14'20"  | 1.722  |
| 11/04/2013 00:00:00 | ♃ | 22°50'34" ♎ | 08°26'40"  | -00°28'14" | 00°45'28"  | 2.423  |
| 11/04/2013 00:00:00 | ♃ | 13°35'06" ♎ | 22°03'53"  | -00°21'54" | 00°10'54"  | 5.647  |
| 11/04/2013 00:00:00 | ♃ | 09°29'48" ♎ | -12°06'55" | 02°40'27"  | -00°04'12" | 8.862  |
| 11/04/2013 00:00:00 | ♃ | 09°13'29" ♎ | 03°02'23"  | -00°40'10" | 00°03'22"  | 21.031 |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 11/04/2013 00:00:00 | ♁ | 04°30'57" ♈ | -10°26'07" | -00°37'30" | 00°01'41"  | 30.665 |
| 11/04/2013 00:00:00 | ♁ | 11°35'08" ♈ | -19°39'43" | 03°16'51"  | 00°00'03"  | 32.234 |
| 11/04/2013 00:00:00 | ♁ | 16°54'39" ♎ | -16°53'06" | 00°00'00"  | -00°01'54" | 0.003  |
| 11/04/2013 00:00:00 | ♁ | 11°55'19" ♈ | -02°23'40" | 05°04'27"  | 00°03'10"  | 18.239 |
| 11/04/2013 00:00:00 | ♁ | 23°23'15" ♀ | 20°18'41"  | -02°57'46" | 00°06'40"  | 0.003  |
| 11/04/2013 00:00:00 | ♁ | 16°54'39" ♎ | -16°53'06" | 00°00'00"  | -00°01'54" | 0.003  |
| 11/04/2013 00:00:00 | ♁ | 00°38'06" ♁ | 19°48'39"  | -03°37'24" | 00°27'33"  | 0.003  |
| 11/04/2013 00:00:00 | X | 22°15'24" ♀ | -03°20'29" | -12°55'05" | 00°00'39"  | 97.457 |
| 11/04/2013 00:00:00 | Y | 23°04'50" ♁ | 07°05'31"  | -11°48'35" | 00°00'40"  | 87.436 |
| 12/04/2013 00:00:00 | ♁ | 22°14'56" ♀ | 08°39'40"  | 00°00'00"  | 00°58'52"  | 1.002  |
| 12/04/2013 00:00:00 | ♁ | 10°39'42" ♁ | 15°33'42"  | 00°34'13"  | 12°18'11"  | 0.003  |
| 12/04/2013 00:00:00 | ♁ | 26°58'54" ♈ | -03°31'23" | -02°31'55" | 01°23'58"  | 1.049  |
| 12/04/2013 00:00:00 | ♁ | 25°54'11" ♀ | 09°03'02"  | -01°01'29" | 01°14'19"  | 1.721  |
| 12/04/2013 00:00:00 | ♁ | 23°36'01" ♀ | 08°44'02"  | -00°27'38" | 00°45'25"  | 2.424  |
| 12/04/2013 00:00:00 | ♁ | 13°46'04" ♀ | 22°05'21"  | -00°21'46" | 00°10'59"  | 5.660  |
| 12/04/2013 00:00:00 | ♁ | 09°25'35" ♎ | -12°05'31" | 02°40'32"  | -00°04'14" | 8.857  |
| 12/04/2013 00:00:00 | ♁ | 09°16'51" ♀ | 03°03'42"  | -00°40'11" | 00°03'21"  | 21.027 |
| 12/04/2013 00:00:00 | ♁ | 04°32'38" ♈ | -10°25'31" | -00°37'32" | 00°01'40"  | 30.653 |
| 12/04/2013 00:00:00 | ♁ | 11°35'10" ♈ | -19°39'42" | 03°16'51"  | 00°00'01"  | 32.218 |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 12/04/2013 00:00:00 | ♏ | 16°53'24" ♍ | -16°52'45" | 00°00'00"  | -00°00'36" | 0.002  |
| 12/04/2013 00:00:00 | ♋ | 11°58'28" ♉ | -02°22'22" | 05°04'35"  | 00°03'08"  | 18.229 |
| 12/04/2013 00:00:00 | ♌ | 23°29'55" ♊ | 20°18'17"  | -02°58'29" | 00°06'40"  | 0.003  |
| 12/04/2013 00:00:00 | ♏ | 16°53'24" ♍ | -16°52'45" | 00°00'00"  | -00°00'36" | 0.002  |
| 12/04/2013 00:00:00 | ♌ | 00°34'25" ♉ | 19°48'28"  | -03°37'36" | -00°29'21" | 0.003  |
| 12/04/2013 00:00:00 | X | 22°16'04" ♉ | -03°20'13" | -12°55'02" | 00°00'39"  | 97.457 |
| 12/04/2013 00:00:00 | Y | 23°05'31" ♉ | 07°05'44"  | -11°48'30" | 00°00'40"  | 87.444 |
| 13/04/2013 00:00:00 | ♉ | 23°13'47" ♉ | 09°01'31"  | 00°00'00"  | 00°58'50"  | 1.003  |
| 13/04/2013 00:00:00 | ♊ | 22°51'45" ♉ | 17°57'18"  | -00°32'52" | 12°06'17"  | 0.003  |
| 13/04/2013 00:00:00 | ♌ | 28°23'47" ♉ | -02°59'19" | -02°33'45" | 01°25'46"  | 1.063  |
| 13/04/2013 00:00:00 | ♌ | 27°08'30" ♉ | 09°31'24"  | -00°59'48" | 01°14'18"  | 1.721  |
| 13/04/2013 00:00:00 | ♌ | 24°21'25" ♉ | 09°01'18"  | -00°27'01" | 00°45'22"  | 2.425  |
| 13/04/2013 00:00:00 | ♌ | 13°57'06" ♊ | 22°06'49"  | -00°21'37" | 00°11'05"  | 5.673  |
| 13/04/2013 00:00:00 | ♌ | 09°21'19" ♍ | -12°04'07" | 02°40'36"  | -00°04'16" | 8.852  |
| 13/04/2013 00:00:00 | ♌ | 09°20'12" ♉ | 03°05'01"  | -00°40'11" | 00°03'21"  | 21.023 |
| 13/04/2013 00:00:00 | ♌ | 04°34'18" ♉ | -10°24'56" | -00°37'33" | 00°01'39"  | 30.640 |
| 13/04/2013 00:00:00 | ♌ | 11°35'11" ♉ | -19°39'42" | 03°16'51"  | -00°00'00" | 32.201 |
| 13/04/2013 00:00:00 | ♏ | 16°53'23" ♍ | -16°52'45" | 00°00'00"  | 00°00'31"  | 0.002  |
| 13/04/2013 00:00:00 | ♋ | 12°01'36" ♉ | -02°21'03" | 05°04'43"  | 00°03'06"  | 18.219 |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 13/04/2013 00:00:00 | ☾ | 23°36'35" ♀ | 20°17'53"  | -02°59'13" | 00°06'40"  | 0.003  |
| 13/04/2013 00:00:00 | ♄ | 16°53'23" ♀ | -16°52'45" | 00°00'00"  | 00°00'31"  | 0.002  |
| 13/04/2013 00:00:00 | ♄ | 29°50'48" ♀ | 19°51'06"  | -03°35'02" | -00°52'31" | 0.003  |
| 13/04/2013 00:00:00 | X | 22°16'43" ♀ | -03°19'56" | -12°55'00" | 00°00'39"  | 97.457 |
| 13/04/2013 00:00:00 | Y | 23°06'12" ♀ | 07°05'58"  | -11°48'26" | 00°00'41"  | 87.452 |
| 14/04/2013 00:00:00 | ☉ | 24°12'36" ♀ | 09°23'12"  | 00°00'00"  | 00°58'47"  | 1.003  |
| 14/04/2013 00:00:00 | ☾ | 04°53'09" ♀ | 19°30'25"  | -01°37'38" | 11°56'59"  | 0.003  |
| 14/04/2013 00:00:00 | ♁ | 29°50'26" ♀ | -02°26'04" | -02°35'04" | 01°27'32"  | 1.077  |
| 14/04/2013 00:00:00 | ♀ | 28°22'47" ♀ | 09°59'32"  | -00°58'05" | 01°14'16"  | 1.720  |
| 14/04/2013 00:00:00 | ♂ | 25°06'46" ♀ | 09°18'28"  | -00°26'24" | 00°45'19"  | 2.427  |
| 14/04/2013 00:00:00 | ♃ | 14°08'14" ♀ | 22°08'17"  | -00°21'28" | 00°11'10"  | 5.685  |
| 14/04/2013 00:00:00 | ♃ | 09°17'01" ♀ | -12°02'42" | 02°40'40"  | -00°04'18" | 8.847  |
| 14/04/2013 00:00:00 | ♃ | 09°23'33" ♀ | 03°06'20"  | -00°40'11" | 00°03'20"  | 21.019 |
| 14/04/2013 00:00:00 | ♃ | 04°35'57" ♀ | -10°24'22" | -00°37'35" | 00°01'37"  | 30.627 |
| 14/04/2013 00:00:00 | ♃ | 11°35'10" ♀ | -19°39'42" | 03°16'52"  | -00°00'02" | 32.185 |
| 14/04/2013 00:00:00 | ♄ | 16°54'20" ♀ | -16°53'01" | 00°00'00"  | 00°01'19"  | 0.002  |
| 14/04/2013 00:00:00 | ♃ | 12°04'42" ♀ | -02°19'46" | 05°04'51"  | 00°03'04"  | 18.209 |
| 14/04/2013 00:00:00 | ☾ | 23°43'16" ♀ | 20°17'28"  | -02°59'56" | 00°06'40"  | 0.003  |
| 14/04/2013 00:00:00 | ♄ | 16°54'20" ♀ | -16°53'01" | 00°00'00"  | 00°01'19"  | 0.002  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 14/04/2013 00:00:00 | T♄ | 28°58'08" ♀ | 19°54'13"  | -03°31'41" | -00°49'38" | 0.003  |
| 14/04/2013 00:00:00 | X  | 22°17'23" ♀ | -03°19'41" | -12°54'58" | 00°00'39"  | 97.457 |
| 14/04/2013 00:00:00 | Y  | 23°06'53" ♂ | 07°06'12"  | -11°48'22" | 00°00'41"  | 87.459 |
| 15/04/2013 00:00:00 | ☉  | 25°11'23" ♀ | 09°44'45"  | -00°00'00" | 00°58'45"  | 1.003  |
| 15/04/2013 00:00:00 | ☾  | 16°46'52" ♀ | 20°09'59"  | -02°37'31" | 11°51'03"  | 0.003  |
| 15/04/2013 00:00:00 | ♁  | 01°18'51" ♀ | -01°51'38" | -02°35'51" | 01°29'16"  | 1.091  |
| 15/04/2013 00:00:00 | ♂  | 29°37'03" ♀ | 10°27'26"  | -00°56'18" | 01°14'15"  | 1.720  |
| 15/04/2013 00:00:00 | ♂  | 25°52'05" ♀ | 09°35'32"  | -00°25'47" | 00°45'16"  | 2.428  |
| 15/04/2013 00:00:00 | ♂  | 14°19'27" ♀ | 22°09'44"  | -00°21'19" | 00°11'15"  | 5.698  |
| 15/04/2013 00:00:00 | ♃  | 09°12'41" ♀ | -12°01'17" | 02°40'43"  | -00°04'20" | 8.843  |
| 15/04/2013 00:00:00 | ♃  | 09°26'53" ♀ | 03°07'38"  | -00°40'11" | 00°03'19"  | 21.015 |
| 15/04/2013 00:00:00 | ♃  | 04°37'34" ♀ | -10°23'48" | -00°37'36" | 00°01'36"  | 30.615 |
| 15/04/2013 00:00:00 | ♃  | 11°35'06" ♀ | -19°39'42" | 03°16'52"  | -00°00'03" | 32.169 |
| 15/04/2013 00:00:00 | ♃  | 16°55'52" ♀ | -16°53'27" | 00°00'00"  | 00°01'40"  | 0.002  |
| 15/04/2013 00:00:00 | ♃  | 12°07'46" ♀ | -02°18'29" | 05°04'59"  | 00°03'02"  | 18.199 |
| 15/04/2013 00:00:00 | ♃  | 23°49'56" ♀ | 20°17'04"  | -03°00'39" | 00°06'40"  | 0.003  |
| 15/04/2013 00:00:00 | T♄ | 16°55'52" ♀ | -16°53'27" | 00°00'00"  | 00°01'40"  | 0.002  |
| 15/04/2013 00:00:00 | T♄ | 28°15'15" ♀ | 19°56'36"  | -03°28'52" | -00°35'32" | 0.003  |
| 15/04/2013 00:00:00 | X  | 22°18'02" ♀ | -03°19'25" | -12°54'57" | 00°00'39"  | 97.456 |



Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 15/04/2013 00:00:00 | Y  | 23°07'35" ♂ | 07°06'26"  | -11°48'18" | 00°00'41"  | 87.467 |
| 16/04/2013 00:00:00 | ☉  | 26°10'08" ♀ | 10°06'07"  | -00°00'00" | 00°58'43"  | 1.004  |
| 16/04/2013 00:00:00 | ☾  | 28°36'37" ♀ | 19°55'21"  | -03°30'21" | 11°49'09"  | 0.003  |
| 16/04/2013 00:00:00 | ♀  | 02°49'00" ♀ | -01°16'05" | -02°36'07" | 01°30'59"  | 1.104  |
| 16/04/2013 00:00:00 | ♀  | 00°51'18" ♂ | 10°55'05"  | -00°54'30" | 01°14'14"  | 1.719  |
| 16/04/2013 00:00:00 | ♂  | 26°37'20" ♀ | 09°52'29"  | -00°25'10" | 00°45'13"  | 2.429  |
| 16/04/2013 00:00:00 | ♃  | 14°30'46" ♀ | 22°11'11"  | -00°21'10" | 00°11'20"  | 5.710  |
| 16/04/2013 00:00:00 | ♄  | 09°08'20" ♃ | -11°59'51" | 02°40'46"  | -00°04'22" | 8.839  |
| 16/04/2013 00:00:00 | ♅  | 09°30'13" ♀ | 03°08'56"  | -00°40'12" | 00°03'19"  | 21.011 |
| 16/04/2013 00:00:00 | ♆  | 04°39'10" ♃ | -10°23'14" | -00°37'38" | 00°01'34"  | 30.601 |
| 16/04/2013 00:00:00 | ♇  | 11°35'02" ♃ | -19°39'42" | 03°16'52"  | -00°00'05" | 32.153 |
| 16/04/2013 00:00:00 | ♈  | 16°57'33" ♃ | -16°53'56" | 00°00'00"  | 00°01'36"  | 0.002  |
| 16/04/2013 00:00:00 | ♉  | 12°10'48" ♃ | -02°17'12" | 05°05'08"  | 00°03'00"  | 18.188 |
| 16/04/2013 00:00:00 | ♊  | 23°56'36" ♀ | 20°16'39"  | -03°01'22" | 00°06'40"  | 0.003  |
| 16/04/2013 00:00:00 | T♈ | 16°57'33" ♃ | -16°53'56" | 00°00'00"  | 00°01'36"  | 0.002  |
| 16/04/2013 00:00:00 | T♉ | 27°46'04" ♀ | 19°58'10"  | -03°26'52" | -00°24'13" | 0.003  |
| 16/04/2013 00:00:00 | X  | 22°18'42" ♀ | -03°19'09" | -12°54'55" | 00°00'39"  | 97.455 |
| 16/04/2013 00:00:00 | Y  | 23°08'17" ♂ | 07°06'39"  | -11°48'14" | 00°00'42"  | 87.474 |
| 17/04/2013 00:00:00 | ☉  | 27°08'50" ♀ | 10°27'19"  | -00°00'00" | 00°58'41"  | 1.004  |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 17/04/2013 00:00:00 | ♃ | 10°26'41" ♉ | 18°47'59"  | -04°14'16" | 11°51'44"  | 0.003  |
| 17/04/2013 00:00:00 | ♆ | 04°20'50" ♋ | -00°39'25" | -02°35'52" | 01°32'41"  | 1.118  |
| 17/04/2013 00:00:00 | ♀ | 02°05'32" ♋ | 11°22'30"  | -00°52'38" | 01°14'13"  | 1.718  |
| 17/04/2013 00:00:00 | ♂ | 27°22'33" ♋ | 10°09'20"  | -00°24'33" | 00°45'10"  | 2.431  |
| 17/04/2013 00:00:00 | ♃ | 14°42'09" ♉ | 22°12'37"  | -00°21'02" | 00°11'25"  | 5.722  |
| 17/04/2013 00:00:00 | ♄ | 09°03'56" ♉ | -11°58'26" | 02°40'49"  | -00°04'24" | 8.836  |
| 17/04/2013 00:00:00 | ♃ | 09°33'32" ♋ | 03°10'14"  | -00°40'12" | 00°03'18"  | 21.006 |
| 17/04/2013 00:00:00 | ♃ | 04°40'44" ♉ | -10°22'41" | -00°37'40" | 00°01'33"  | 30.588 |
| 17/04/2013 00:00:00 | ♃ | 11°34'55" ♉ | -19°39'43" | 03°16'52"  | -00°00'07" | 32.137 |
| 17/04/2013 00:00:00 | ♁ | 16°58'57" ♉ | -16°54'19" | 00°00'00"  | 00°01'08"  | 0.002  |
| 17/04/2013 00:00:00 | ♃ | 12°13'47" ♉ | -02°15'56" | 05°05'17"  | 00°02'58"  | 18.178 |
| 17/04/2013 00:00:00 | ♁ | 24°03'17" ♉ | 20°16'13"  | -03°02'05" | 00°06'40"  | 0.003  |
| 17/04/2013 00:00:00 | ♁ | 16°58'57" ♉ | -16°54'19" | 00°00'00"  | 00°01'08"  | 0.002  |
| 17/04/2013 00:00:00 | ♁ | 27°22'43" ♉ | 19°59'24"  | -03°25'13" | -00°24'58" | 0.003  |
| 17/04/2013 00:00:00 | X | 22°19'21" ♋ | -03°18'53" | -12°54'54" | 00°00'39"  | 97.454 |
| 17/04/2013 00:00:00 | Y | 23°08'59" ♋ | 07°06'53"  | -11°48'10" | 00°00'42"  | 87.481 |
| 18/04/2013 00:00:00 | ♁ | 28°07'30" ♋ | 10°48'21"  | -00°00'00" | 00°58'39"  | 1.004  |
| 18/04/2013 00:00:00 | ♃ | 22°21'41" ♉ | 16°51'00"  | -04°47'33" | 11°59'05"  | 0.003  |
| 18/04/2013 00:00:00 | ♆ | 05°54'23" ♋ | -00°01'41" | -02°35'05" | 01°34'22"  | 1.131  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 18/04/2013 00:00:00 | ♀  | 03°19'45" ♉ | 11°49'37"  | -00°50'45" | 01°14'11"  | 1.717  |
| 18/04/2013 00:00:00 | ♂  | 28°07'42" ♏ | 10°26'04"  | -00°23'56" | 00°45'07"  | 2.432  |
| 18/04/2013 00:00:00 | ♃  | 14°53'37" ♌ | 22°14'03"  | -00°20'53" | 00°11'30"  | 5.734  |
| 18/04/2013 00:00:00 | ♄  | 08°59'31" ♉ | -11°57'00" | 02°40'52"  | -00°04'25" | 8.832  |
| 18/04/2013 00:00:00 | ♅  | 09°36'50" ♏ | 03°11'32"  | -00°40'12" | 00°03'17"  | 21.001 |
| 18/04/2013 00:00:00 | ♆  | 04°42'17" ♋ | -10°22'09" | -00°37'41" | 00°01'31"  | 30.575 |
| 18/04/2013 00:00:00 | ♁  | 11°34'46" ♈ | -19°39'44" | 03°16'52"  | -00°00'09" | 32.121 |
| 18/04/2013 00:00:00 | ♁  | 16°59'45" ♉ | -16°54'33" | 00°00'00"  | 00°00'25"  | 0.002  |
| 18/04/2013 00:00:00 | ♂  | 12°16'45" ♋ | -02°14'41" | 05°05'26"  | 00°02'56"  | 18.167 |
| 18/04/2013 00:00:00 | ♁  | 24°09'57" ♌ | 20°15'48"  | -03°02'48" | 00°06'40"  | 0.003  |
| 18/04/2013 00:00:00 | T♁ | 16°59'45" ♉ | -16°54'33" | 00°00'00"  | 00°00'25"  | 0.002  |
| 18/04/2013 00:00:00 | T♁ | 26°50'39" ♌ | 20°01'00"  | -03°22'56" | -00°41'59" | 0.003  |
| 18/04/2013 00:00:00 | X  | 22°20'01" ♏ | -03°18'38" | -12°54'52" | 00°00'39"  | 97.453 |
| 18/04/2013 00:00:00 | Y  | 23°09'42" ♉ | 07°07'07"  | -11°48'06" | 00°00'42"  | 87.487 |
| 19/04/2013 00:00:00 | ☾  | 29°06'09" ♏ | 11°09'13"  | -00°00'00" | 00°58'36"  | 1.004  |
| 19/04/2013 00:00:00 | ♃  | 04°26'27" ♈ | 14°08'49"  | -05°08'40" | 12°11'13"  | 0.003  |
| 19/04/2013 00:00:00 | ♄  | 07°29'36" ♏ | 00°37'04"  | -02°33'47" | 01°36'03"  | 1.144  |
| 19/04/2013 00:00:00 | ♀  | 04°33'56" ♉ | 12°16'28"  | -00°48'48" | 01°14'10"  | 1.716  |
| 19/04/2013 00:00:00 | ♂  | 28°52'48" ♏ | 10°42'41"  | -00°23'18" | 00°45'04"  | 2.433  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 19/04/2013 00:00:00 | ♈  | 15°05'09" ♀ | 22°15'28"  | -00°20'45" | 00°11'35"  | 5.746  |
| 19/04/2013 00:00:00 | ♍  | 08°55'05" ♃ | -11°55'34" | 02°40'54"  | -00°04'27" | 8.830  |
| 19/04/2013 00:00:00 | ♎  | 09°40'07" ♃ | 03°12'49"  | -00°40'13" | 00°03'16"  | 20.995 |
| 19/04/2013 00:00:00 | ♏  | 04°43'48" ♃ | -10°21'37" | -00°37'43" | 00°01'30"  | 30.561 |
| 19/04/2013 00:00:00 | ♐  | 11°34'36" ♃ | -19°39'44" | 03°16'52"  | -00°00'11" | 32.106 |
| 19/04/2013 00:00:00 | ♑  | 16°59'46" ♃ | -16°54'33" | 00°00'00"  | -00°00'23" | 0.002  |
| 19/04/2013 00:00:00 | ♒  | 12°19'40" ♃ | -02°13'26" | 05°05'35"  | 00°02'54"  | 18.156 |
| 19/04/2013 00:00:00 | ♓  | 24°16'37" ♀ | 20°15'22"  | -03°03'31" | 00°06'40"  | 0.003  |
| 19/04/2013 00:00:00 | T♑ | 16°59'46" ♃ | -16°54'33" | 00°00'00"  | -00°00'23" | 0.002  |
| 19/04/2013 00:00:00 | T♒ | 25°53'20" ♀ | 20°03'32"  | -03°18'52" | -01°15'04" | 0.003  |
| 19/04/2013 00:00:00 | X  | 22°20'40" ♃ | -03°18'23" | -12°54'51" | 00°00'39"  | 97.451 |
| 19/04/2013 00:00:00 | Y  | 23°10'25" ♃ | 07°07'20"  | -11°48'03" | 00°00'43"  | 87.494 |
| 20/04/2013 00:00:00 | ♈  | 00°04'44" ♃ | 11°29'53"  | -00°00'00" | 00°58'34"  | 1.005  |
| 20/04/2013 00:00:00 | ♎  | 16°45'38" ♃ | 10°46'47"  | -05°16'11" | 12°27'51"  | 0.003  |
| 20/04/2013 00:00:00 | ♏  | 09°06'30" ♃ | 01°16'50"  | -02°31'58" | 01°37'44"  | 1.157  |
| 20/04/2013 00:00:00 | ♐  | 05°48'06" ♃ | 12°43'02"  | -00°46'50" | 01°14'09"  | 1.716  |
| 20/04/2013 00:00:00 | ♑  | 29°37'51" ♃ | 10°59'12"  | -00°22'40" | 00°45'01"  | 2.435  |
| 20/04/2013 00:00:00 | ♒  | 15°16'47" ♀ | 22°16'54"  | -00°20'36" | 00°11'39"  | 5.758  |
| 20/04/2013 00:00:00 | ♓  | 08°50'37" ♃ | -11°54'07" | 02°40'56"  | -00°04'28" | 8.827  |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 20/04/2013 00:00:00 | ♃ | 09°43'23" ♏ | 03°14'05"  | -00°40'13" | 00°03'15"  | 20.990 |
| 20/04/2013 00:00:00 | ♃ | 04°45'17" ♏ | -10°21'06" | -00°37'45" | 00°01'28"  | 30.547 |
| 20/04/2013 00:00:00 | ♃ | 11°34'23" ♎ | -19°39'46" | 03°16'52"  | -00°00'13" | 32.090 |
| 20/04/2013 00:00:00 | ♃ | 16°58'59" ♎ | -16°54'20" | 00°00'00"  | -00°01'09" | 0.002  |
| 20/04/2013 00:00:00 | ♃ | 12°22'33" ♏ | -02°12'12" | 05°05'44"  | 00°02'51"  | 18.145 |
| 20/04/2013 00:00:00 | ♃ | 24°23'18" ♏ | 20°14'56"  | -03°04'13" | 00°06'40"  | 0.003  |
| 20/04/2013 00:00:00 | ♃ | 16°58'59" ♎ | -16°54'20" | 00°00'00"  | -00°01'09" | 0.002  |
| 20/04/2013 00:00:00 | ♃ | 24°16'49" ♏ | 20°06'58"  | -03°11'56" | -01°59'01" | 0.003  |
| 20/04/2013 00:00:00 | X | 22°21'19" ♏ | -03°18'08" | -12°54'50" | 00°00'39"  | 97.449 |
| 20/04/2013 00:00:00 | Y | 23°11'08" ♏ | 07°07'34"  | -11°47'59" | 00°00'43"  | 87.500 |
| 21/04/2013 00:00:00 | ♃ | 01°03'18" ♏ | 11°50'21"  | -00°00'00" | 00°58'32"  | 1.005  |
| 21/04/2013 00:00:00 | ♃ | 29°23'27" ♏ | 06°51'22"  | -05°08'50" | 12°48'19"  | 0.003  |
| 21/04/2013 00:00:00 | ♃ | 10°45'04" ♏ | 01°57'35"  | -02°29'37" | 01°39'24"  | 1.170  |
| 21/04/2013 00:00:00 | ♃ | 07°02'15" ♏ | 13°09'16"  | -00°44'49" | 01°14'08"  | 1.715  |
| 21/04/2013 00:00:00 | ♃ | 00°22'51" ♏ | 11°15'35"  | -00°22'03" | 00°44'58"  | 2.436  |
| 21/04/2013 00:00:00 | ♃ | 15°28'29" ♏ | 22°18'18"  | -00°20'28" | 00°11'44"  | 5.769  |
| 21/04/2013 00:00:00 | ♃ | 08°46'08" ♎ | -11°52'41" | 02°40'57"  | -00°04'29" | 8.824  |
| 21/04/2013 00:00:00 | ♃ | 09°46'38" ♏ | 03°15'21"  | -00°40'14" | 00°03'14"  | 20.984 |
| 21/04/2013 00:00:00 | ♃ | 04°46'45" ♏ | -10°20'35" | -00°37'46" | 00°01'27"  | 30.533 |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 21/04/2013 00:00:00 | ♁ | 11°34'09" ♉ | -19°39'47" | 03°16'52"  | -00°00'15" | 32.074 |
| 21/04/2013 00:00:00 | ♈ | 16°57'32" ♉ | -16°53'55" | 00°00'00"  | -00°01'42" | 0.002  |
| 21/04/2013 00:00:00 | ♊ | 12°25'23" ♉ | -02°10'59" | 05°05'54"  | 00°02'49"  | 18.133 |
| 21/04/2013 00:00:00 | ♋ | 24°29'58" ♉ | 20°14'30"  | -03°04'56" | 00°06'40"  | 0.003  |
| 21/04/2013 00:00:00 | ♌ | 16°57'32" ♉ | -16°53'55" | 00°00'00"  | -00°01'42" | 0.002  |
| 21/04/2013 00:00:00 | ♍ | 21°55'13" ♉ | 20°10'09"  | -03°01'32" | -02°43'00" | 0.003  |
| 21/04/2013 00:00:00 | ♎ | 22°21'58" ♉ | -03°17'53" | -12°54'49" | 00°00'39"  | 97.447 |
| 21/04/2013 00:00:00 | ♏ | 23°11'51" ♉ | 07°07'47"  | -11°47'56" | 00°00'43"  | 87.506 |
| 22/04/2013 00:00:00 | ♐ | 02°01'49" ♉ | 12°10'38"  | -00°00'00" | 00°58'30"  | 1.005  |
| 22/04/2013 00:00:00 | ♑ | 12°23'13" ♉ | 02°30'30"  | -04°45'42" | 13°11'32"  | 0.003  |
| 22/04/2013 00:00:00 | ♒ | 12°25'19" ♉ | 02°39'17"  | -02°26'45" | 01°41'05"  | 1.182  |
| 22/04/2013 00:00:00 | ♓ | 08°16'22" ♉ | 13°35'12"  | -00°42'46" | 01°14'06"  | 1.714  |
| 22/04/2013 00:00:00 | ♈ | 01°07'48" ♉ | 11°31'51"  | -00°21'25" | 00°44'55"  | 2.437  |
| 22/04/2013 00:00:00 | ♉ | 15°40'15" ♉ | 22°19'42"  | -00°20'20" | 00°11'48"  | 5.780  |
| 22/04/2013 00:00:00 | ♊ | 08°41'38" ♉ | -11°51'14" | 02°40'59"  | -00°04'30" | 8.822  |
| 22/04/2013 00:00:00 | ♋ | 09°49'53" ♉ | 03°16'37"  | -00°40'14" | 00°03'13"  | 20.978 |
| 22/04/2013 00:00:00 | ♌ | 04°48'12" ♉ | -10°20'05" | -00°37'48" | 00°01'25"  | 30.519 |
| 22/04/2013 00:00:00 | ♍ | 11°33'53" ♉ | -19°39'48" | 03°16'52"  | -00°00'16" | 32.059 |
| 22/04/2013 00:00:00 | ♎ | 16°55'40" ♉ | -16°53'23" | 00°00'00"  | -00°01'57" | 0.002  |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 22/04/2013 00:00:00 | ♁ | 12°28'12" ♈ | -02°09'46" | 05°06'04"  | 00°02'47"  | 18.121 |
| 22/04/2013 00:00:00 | ♁ | 24°36'38" ♈ | 20°14'04"  | -03°05'38" | 00°06'40"  | 0.003  |
| 22/04/2013 00:00:00 | ♁ | 16°55'40" ♈ | -16°53'23" | 00°00'00"  | -00°01'57" | 0.002  |
| 22/04/2013 00:00:00 | ♁ | 18°55'43" ♈ | 20°11'05"  | -02°47'56" | -03°12'19" | 0.003  |
| 22/04/2013 00:00:00 | X | 22°22'37" ♈ | -03°17'38" | -12°54'48" | 00°00'38"  | 97.444 |
| 22/04/2013 00:00:00 | Y | 23°12'35" ♈ | 07°08'01"  | -11°47'53" | 00°00'43"  | 87.511 |
| 23/04/2013 00:00:00 | ♁ | 03°00'19" ♈ | 12°30'43"  | -00°00'00" | 00°58'28"  | 1.005  |
| 23/04/2013 00:00:00 | ♁ | 25°46'55" ♈ | -02°05'44" | -04°06'32" | 13°35'53"  | 0.003  |
| 23/04/2013 00:00:00 | ♁ | 14°07'14" ♈ | 03°21'52"  | -02°23'23" | 01°42'45"  | 1.195  |
| 23/04/2013 00:00:00 | ♁ | 09°30'28" ♈ | 14°00'48"  | -00°40'41" | 01°14'05"  | 1.712  |
| 23/04/2013 00:00:00 | ♁ | 01°52'42" ♈ | 11°47'59"  | -00°20'47" | 00°44'52"  | 2.438  |
| 23/04/2013 00:00:00 | ♁ | 15°52'05" ♈ | 22°21'05"  | -00°20'12" | 00°11'52"  | 5.792  |
| 23/04/2013 00:00:00 | ♁ | 08°37'07" ♈ | -11°49'47" | 02°40'59"  | -00°04'31" | 8.821  |
| 23/04/2013 00:00:00 | ♁ | 09°53'06" ♈ | 03°17'53"  | -00°40'15" | 00°03'12"  | 20.972 |
| 23/04/2013 00:00:00 | ♁ | 04°49'37" ♈ | -10°19'35" | -00°37'49" | 00°01'24"  | 30.505 |
| 23/04/2013 00:00:00 | ♁ | 11°33'36" ♈ | -19°39'50" | 03°16'52"  | -00°00'18" | 32.044 |
| 23/04/2013 00:00:00 | ♁ | 16°53'44" ♈ | -16°52'50" | 00°00'00"  | -00°01'52" | 0.002  |
| 23/04/2013 00:00:00 | ♁ | 12°30'58" ♈ | -02°08'34" | 05°06'14"  | 00°02'44"  | 18.110 |
| 23/04/2013 00:00:00 | ♁ | 24°43'18" ♈ | 20°13'37"  | -03°06'21" | 00°06'40"  | 0.003  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 23/04/2013 00:00:00 | T♄ | 16°53'44" ♍ | -16°52'50" | 00°00'00"  | -00°01'52" | 0.002  |
| 23/04/2013 00:00:00 | T♄ | 15°39'27" ♍ | 20°08'08"  | -02°32'33" | -03°15'24" | 0.003  |
| 23/04/2013 00:00:00 | X  | 22°23'16" ♄ | -03°17'24" | -12°54'48" | 00°00'38"  | 97.441 |
| 23/04/2013 00:00:00 | Y  | 23°13'19" ♄ | 07°08'14"  | -11°47'50" | 00°00'43"  | 87.516 |
| 24/04/2013 00:00:00 | ☉  | 03°58'46" ♄ | 12°50'35"  | -00°00'00" | 00°58'26"  | 1.006  |
| 24/04/2013 00:00:00 | ☾  | 09°34'45" ♌ | -06°44'16" | -03°12'06" | 13°59'27"  | 0.002  |
| 24/04/2013 00:00:00 | ☿  | 15°50'51" ♄ | 04°05'19"  | -02°19'29" | 01°44'27"  | 1.207  |
| 24/04/2013 00:00:00 | ♀  | 10°44'33" ♄ | 14°26'03"  | -00°38'34" | 01°14'04"  | 1.711  |
| 24/04/2013 00:00:00 | ♂  | 02°37'33" ♄ | 12°04'00"  | -00°20'09" | 00°44'49"  | 2.440  |
| 24/04/2013 00:00:00 | ♃  | 16°04'00" ♌ | 22°22'28"  | -00°20'03" | 00°11'56"  | 5.803  |
| 24/04/2013 00:00:00 | ♅  | 08°32'35" ♍ | -11°48'20" | 02°41'00"  | -00°04'32" | 8.819  |
| 24/04/2013 00:00:00 | ♁  | 09°56'18" ♄ | 03°19'08"  | -00°40'15" | 00°03'11"  | 20.965 |
| 24/04/2013 00:00:00 | ♆  | 04°51'00" ♌ | -10°19'06" | -00°37'51" | 00°01'22"  | 30.491 |
| 24/04/2013 00:00:00 | ♁  | 11°33'16" ♌ | -19°39'52" | 03°16'51"  | -00°00'20" | 32.028 |
| 24/04/2013 00:00:00 | ♁  | 16°52'01" ♍ | -16°52'21" | 00°00'00"  | -00°01'30" | 0.002  |
| 24/04/2013 00:00:00 | ♁  | 12°33'41" ♌ | -02°07'23" | 05°06'24"  | 00°02'42"  | 18.098 |
| 24/04/2013 00:00:00 | ♁  | 24°49'59" ♌ | 20°13'10"  | -03°07'03" | 00°06'40"  | 0.003  |
| 24/04/2013 00:00:00 | T♄ | 16°52'01" ♍ | -16°52'21" | 00°00'00"  | -00°01'30" | 0.002  |
| 24/04/2013 00:00:00 | T♄ | 12°33'45" ♍ | 20°01'31"  | -02°17'33" | -02°52'26" | 0.003  |



Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 24/04/2013 00:00:00 | X  | 22°23'55" ♀ | -03°17'09" | -12°54'47" | 00°00'38"  | 97.438 |
| 24/04/2013 00:00:00 | Y  | 23°14'03" ♂ | 07°08'27"  | -11°47'47" | 00°00'44"  | 87.521 |
| 25/04/2013 00:00:00 | ☉  | 04°57'11" ♂ | 13°10'15"  | 00°00'00"  | 00°58'24"  | 1.006  |
| 25/04/2013 00:00:00 | ☾  | 23°44'51" ♄ | -11°08'43" | -02°04'33" | 14°20'04"  | 0.002  |
| 25/04/2013 00:00:00 | ♁  | 17°36'09" ♀ | 04°49'35"  | -02°15'04" | 01°46'08"  | 1.218  |
| 25/04/2013 00:00:00 | ♂  | 11°58'37" ♂ | 14°50'57"  | -00°36'25" | 01°14'03"  | 1.710  |
| 25/04/2013 00:00:00 | ♂  | 03°22'21" ♂ | 12°19'53"  | -00°19'31" | 00°44'46"  | 2.441  |
| 25/04/2013 00:00:00 | ♃  | 16°15'59" ♀ | 22°23'50"  | -00°19'55" | 00°12'01"  | 5.814  |
| 25/04/2013 00:00:00 | ♅  | 08°28'02" ♃ | -11°46'54" | 02°41'00"  | -00°04'32" | 8.818  |
| 25/04/2013 00:00:00 | ♆  | 09°59'29" ♀ | 03°20'22"  | -00°40'16" | 00°03'10"  | 20.958 |
| 25/04/2013 00:00:00 | ♁  | 04°52'22" ♃ | -10°18'38" | -00°37'53" | 00°01'20"  | 30.476 |
| 25/04/2013 00:00:00 | ♂  | 11°32'55" ♃ | -19°39'54" | 03°16'51"  | -00°00'22" | 32.013 |
| 25/04/2013 00:00:00 | ♁  | 16°50'47" ♃ | -16°52'00" | 00°00'00"  | -00°00'56" | 0.002  |
| 25/04/2013 00:00:00 | ♁  | 12°36'23" ♃ | -02°06'12" | 05°06'34"  | 00°02'40"  | 18.086 |
| 25/04/2013 00:00:00 | ♁  | 24°56'39" ♀ | 20°12'43"  | -03°07'45" | 00°06'40"  | 0.003  |
| 25/04/2013 00:00:00 | T♁ | 16°50'47" ♃ | -16°52'00" | 00°00'00"  | -00°00'56" | 0.002  |
| 25/04/2013 00:00:00 | T♁ | 09°59'00" ♀ | 19°53'12"  | -02°04'45" | -02°16'21" | 0.003  |
| 25/04/2013 00:00:00 | X  | 22°24'33" ♀ | -03°16'55" | -12°54'47" | 00°00'38"  | 97.435 |
| 25/04/2013 00:00:00 | Y  | 23°14'47" ♂ | 07°08'40"  | -11°47'44" | 00°00'44"  | 87.526 |

Ephemerides year 2013

|                     |    |           |   |            |            |            |        |
|---------------------|----|-----------|---|------------|------------|------------|--------|
| 26/04/2013 00:00:00 | ♈  | 05°55'35" | ♌ | 13°29'42"  | 00°00'00"  | 00°58'22"  | 1.006  |
| 26/04/2013 00:00:00 | ♉  | 08°13'16" | ♍ | -14°59'45" | -00°47'36" | 14°35'46"  | 0.002  |
| 26/04/2013 00:00:00 | ♊  | 19°23'09" | ♎ | 05°34'38"  | -02°10'09" | 01°47'51"  | 1.230  |
| 26/04/2013 00:00:00 | ♋  | 13°12'40" | ♏ | 15°15'28"  | -00°34'14" | 01°14'02"  | 1.709  |
| 26/04/2013 00:00:00 | ♌  | 04°07'06" | ♐ | 12°35'38"  | -00°18'53" | 00°44'43"  | 2.442  |
| 26/04/2013 00:00:00 | ♍  | 16°28'02" | ♑ | 22°25'11"  | -00°19'47" | 00°12'05"  | 5.824  |
| 26/04/2013 00:00:00 | ♎  | 08°23'30" | ♒ | -11°45'27" | 02°41'00"  | -00°04'32" | 8.817  |
| 26/04/2013 00:00:00 | ♏  | 10°02'40" | ♓ | 03°21'36"  | -00°40'16" | 00°03'09"  | 20.951 |
| 26/04/2013 00:00:00 | ♐  | 04°53'42" | ♈ | -10°18'10" | -00°37'55" | 00°01'19"  | 30.461 |
| 26/04/2013 00:00:00 | ♑  | 11°32'32" | ♉ | -19°39'56" | 03°16'51"  | -00°00'23" | 31.998 |
| 26/04/2013 00:00:00 | ♒  | 16°50'09" | ♊ | -16°51'49" | 00°00'00"  | -00°00'19" | 0.002  |
| 26/04/2013 00:00:00 | ♓  | 12°39'02" | ♋ | -02°05'02" | 05°06'45"  | 00°02'37"  | 18.073 |
| 26/04/2013 00:00:00 | ♈  | 25°03'19" | ♌ | 20°12'16"  | -03°08'27" | 00°06'40"  | 0.003  |
| 26/04/2013 00:00:00 | T♉ | 16°50'09" | ♍ | -16°51'49" | 00°00'00"  | -00°00'19" | 0.002  |
| 26/04/2013 00:00:00 | T♊ | 07°59'29" | ♎ | 19°45'04"  | -01°54'40" | -01°44'44" | 0.003  |
| 26/04/2013 00:00:00 | X  | 22°25'12" | ♏ | -03°16'41" | -12°54'46" | 00°00'38"  | 97.431 |
| 26/04/2013 00:00:00 | Y  | 23°15'32" | ♐ | 07°08'53"  | -11°47'41" | 00°00'44"  | 87.531 |
| 27/04/2013 00:00:00 | ♈  | 06°53'56" | ♌ | 13°48'55"  | 00°00'00"  | 00°58'20"  | 1.006  |
| 27/04/2013 00:00:00 | ♉  | 22°54'16" | ♍ | -17°57'12" | 00°33'37"  | 14°45'04"  | 0.002  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 27/04/2013 00:00:00 | ♀  | 21°11'51" ♀ | 06°20'24"  | -02°04'44" | 01°49'34"  | 1.241  |
| 27/04/2013 00:00:00 | ♀  | 14°26'41" ♂ | 15°39'37"  | -00°32'01" | 01°14'01"  | 1.708  |
| 27/04/2013 00:00:00 | ♂  | 04°51'48" ♂ | 12°51'15"  | -00°18'15" | 00°44'40"  | 2.443  |
| 27/04/2013 00:00:00 | ♃  | 16°40'09" ♀ | 22°26'32"  | -00°19'39" | 00°12'09"  | 5.835  |
| 27/04/2013 00:00:00 | ♃  | 08°18'57" ♃ | -11°44'00" | 02°41'00"  | -00°04'33" | 8.816  |
| 27/04/2013 00:00:00 | ♃  | 10°05'49" ♀ | 03°22'50"  | -00°40'17" | 00°03'08"  | 20.944 |
| 27/04/2013 00:00:00 | ♃  | 04°55'00" ♃ | -10°17'43" | -00°37'56" | 00°01'17"  | 30.447 |
| 27/04/2013 00:00:00 | ♃  | 11°32'07" ♃ | -19°39'58" | 03°16'51"  | -00°00'25" | 31.983 |
| 27/04/2013 00:00:00 | ♃  | 16°50'06" ♃ | -16°51'48" | 00°00'00"  | 00°00'12"  | 0.002  |
| 27/04/2013 00:00:00 | ♃  | 12°41'38" ♃ | -02°03'53" | 05°06'55"  | 00°02'35"  | 18.061 |
| 27/04/2013 00:00:00 | ♃  | 25°10'00" ♀ | 20°11'48"  | -03°09'09" | 00°06'40"  | 0.003  |
| 27/04/2013 00:00:00 | T♃ | 16°50'06" ♃ | -16°51'48" | 00°00'00"  | 00°00'12"  | 0.002  |
| 27/04/2013 00:00:00 | T♃ | 06°23'41" ♃ | 19°37'30"  | -01°46'26" | -01°30'16" | 0.003  |
| 27/04/2013 00:00:00 | X  | 22°25'51" ♀ | -03°16'27" | -12°54'46" | 00°00'38"  | 97.427 |
| 27/04/2013 00:00:00 | Y  | 23°16'17" ♂ | 07°09'06"  | -11°47'39" | 00°00'45"  | 87.535 |
| 28/04/2013 00:00:00 | ♃  | 07°52'16" ♂ | 14°07'55"  | 00°00'00"  | 00°58'19"  | 1.007  |
| 28/04/2013 00:00:00 | ♃  | 07°41'04" ♂ | -19°43'36" | 01°53'10"  | 14°47'21"  | 0.002  |
| 28/04/2013 00:00:00 | ♀  | 23°02'17" ♀ | 07°06'51"  | -01°58'49" | 01°51'17"  | 1.251  |
| 28/04/2013 00:00:00 | ♀  | 15°40'42" ♂ | 16°03'22"  | -00°29'47" | 01°13'59"  | 1.706  |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 28/04/2013 00:00:00 | ♂ | 05°36'27" ♉ | 13°06'44"  | -00°17'36" | 00°44'37"  | 2.444  |
| 28/04/2013 00:00:00 | ♃ | 16°52'20" ♉ | 22°27'52"  | -00°19'31" | 00°12'13"  | 5.845  |
| 28/04/2013 00:00:00 | ♅ | 08°14'23" ♎ | -11°42'34" | 02°40'59"  | -00°04'33" | 8.816  |
| 28/04/2013 00:00:00 | ♁ | 10°08'57" ♈ | 03°24'03"  | -00°40'17" | 00°03'07"  | 20.936 |
| 28/04/2013 00:00:00 | ♆ | 04°56'17" ♉ | -10°17'17" | -00°37'58" | 00°01'16"  | 30.432 |
| 28/04/2013 00:00:00 | ♁ | 11°31'41" ♉ | -19°40'00" | 03°16'50"  | -00°00'27" | 31.968 |
| 28/04/2013 00:00:00 | ♁ | 16°50'30" ♎ | -16°51'55" | 00°00'00"  | 00°00'33"  | 0.002  |
| 28/04/2013 00:00:00 | ♃ | 12°44'12" ♉ | -02°02'45" | 05°07'06"  | 00°02'32"  | 18.048 |
| 28/04/2013 00:00:00 | ♁ | 25°16'40" ♉ | 20°11'20"  | -03°09'51" | 00°06'40"  | 0.003  |
| 28/04/2013 00:00:00 | ♁ | 16°50'30" ♎ | -16°51'55" | 00°00'00"  | 00°00'33"  | 0.002  |
| 28/04/2013 00:00:00 | ♁ | 04°52'16" ♉ | 19°29'27"  | -01°38'27" | -01°35'21" | 0.003  |
| 28/04/2013 00:00:00 | X | 22°26'29" ♈ | -03°16'13" | -12°54'46" | 00°00'38"  | 97.423 |
| 28/04/2013 00:00:00 | Y | 23°17'02" ♉ | 07°09'19"  | -11°47'36" | 00°00'45"  | 87.539 |
| 29/04/2013 00:00:00 | ☉ | 08°50'35" ♉ | 14°26'41"  | 00°00'00"  | 00°58'17"  | 1.007  |
| 29/04/2013 00:00:00 | ☾ | 22°26'42" ♈ | -20°08'26" | 03°05'04"  | 14°42'51"  | 0.002  |
| 29/04/2013 00:00:00 | ☿ | 24°54'25" ♈ | 07°53'53"  | -01°52'24" | 01°53'00"  | 1.262  |
| 29/04/2013 00:00:00 | ♀ | 16°54'41" ♉ | 16°26'43"  | -00°27'31" | 01°13'58"  | 1.705  |
| 29/04/2013 00:00:00 | ♂ | 06°21'04" ♉ | 13°22'05"  | -00°16'58" | 00°44'34"  | 2.445  |
| 29/04/2013 00:00:00 | ♃ | 17°04'35" ♉ | 22°29'11"  | -00°19'23" | 00°12'16"  | 5.856  |

Ephemerides year 2013

|                     |   |           |   |            |            |            |        |
|---------------------|---|-----------|---|------------|------------|------------|--------|
| 29/04/2013 00:00:00 | ♃ | 08°09'50" | ♍ | -11°41'08" | 02°40'58"  | -00°04'33" | 8.816  |
| 29/04/2013 00:00:00 | ♅ | 10°12'04" | ♈ | 03°25'16"  | -00°40'18" | 00°03'06"  | 20.928 |
| 29/04/2013 00:00:00 | ♆ | 04°57'32" | ♏ | -10°16'51" | -00°38'00" | 00°01'14"  | 30.416 |
| 29/04/2013 00:00:00 | ♁ | 11°31'13" | ♌ | -19°40'03" | 03°16'50"  | -00°00'28" | 31.954 |
| 29/04/2013 00:00:00 | ♄ | 16°51'08" | ♍ | -16°52'06" | 00°00'00"  | 00°00'41"  | 0.002  |
| 29/04/2013 00:00:00 | ♁ | 12°46'44" | ♏ | -02°01'37" | 05°07'17"  | 00°02'30"  | 18.035 |
| 29/04/2013 00:00:00 | ♁ | 25°23'21" | ♈ | 20°10'52"  | -03°10'33" | 00°06'40"  | 0.003  |
| 29/04/2013 00:00:00 | ♄ | 16°51'08" | ♍ | -16°52'06" | 00°00'00"  | 00°00'41"  | 0.002  |
| 29/04/2013 00:00:00 | ♁ | 03°09'39" | ♈ | 19°19'26"  | -01°29'21" | -01°49'58" | 0.003  |
| 29/04/2013 00:00:00 | X | 22°27'07" | ♈ | -03°16'00" | -12°54'46" | 00°00'38"  | 97.418 |
| 29/04/2013 00:00:00 | Y | 23°17'47" | ♏ | 07°09'32"  | -11°47'34" | 00°00'45"  | 87.543 |
| 30/04/2013 00:00:00 | ♁ | 09°48'51" | ♏ | 14°45'13"  | 00°00'00"  | 00°58'16"  | 1.007  |
| 30/04/2013 00:00:00 | ♃ | 07°04'53" | ♌ | -19°10'52" | 04°04'14"  | 14°32'39"  | 0.002  |
| 30/04/2013 00:00:00 | ♁ | 26°48'17" | ♈ | 08°41'28"  | -01°45'31" | 01°54'43"  | 1.271  |
| 30/04/2013 00:00:00 | ♁ | 18°08'40" | ♏ | 16°49'38"  | -00°25'14" | 01°13'57"  | 1.703  |
| 30/04/2013 00:00:00 | ♁ | 07°05'37" | ♏ | 13°37'18"  | -00°16'20" | 00°44'31"  | 2.446  |
| 30/04/2013 00:00:00 | ♁ | 17°16'54" | ♈ | 22°30'29"  | -00°19'15" | 00°12'20"  | 5.866  |
| 30/04/2013 00:00:00 | ♃ | 08°05'17" | ♍ | -11°39'42" | 02°40'56"  | -00°04'33" | 8.817  |
| 30/04/2013 00:00:00 | ♅ | 10°15'10" | ♈ | 03°26'28"  | -00°40'19" | 00°03'05"  | 20.920 |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 30/04/2013 00:00:00 | ♁  | 04°58'46" ♈ | -10°16'25" | -00°38'01" | 00°01'12"  | 30.401 |
| 30/04/2013 00:00:00 | ♁  | 11°30'44" ♈ | -19°40'06" | 03°16'49"  | -00°00'30" | 31.939 |
| 30/04/2013 00:00:00 | ♁  | 16°51'48" ♎ | -16°52'17" | 00°00'00"  | 00°00'36"  | 0.002  |
| 30/04/2013 00:00:00 | ♁  | 12°49'13" ♈ | -02°00'30" | 05°07'29"  | 00°02'27"  | 18.022 |
| 30/04/2013 00:00:00 | ♁  | 25°30'02" ♈ | 20°10'24"  | -03°11'15" | 00°06'40"  | 0.003  |
| 30/04/2013 00:00:00 | T♁ | 16°51'48" ♎ | -16°52'17" | 00°00'00"  | 00°00'36"  | 0.002  |
| 30/04/2013 00:00:00 | T♁ | 01°16'00" ♈ | 19°07'07"  | -01°19'10" | -01°53'29" | 0.003  |
| 30/04/2013 00:00:00 | X  | 22°27'45" ♈ | -03°15'46" | -12°54'47" | 00°00'38"  | 97.414 |
| 30/04/2013 00:00:00 | Y  | 23°18'33" ♈ | 07°09'45"  | -11°47'32" | 00°00'45"  | 87.546 |
| 01/05/2013 00:00:00 | ♁  | 10°47'07" ♈ | 15°03'30"  | 00°00'00"  | 00°58'14"  | 1.008  |
| 01/05/2013 00:00:00 | ♁  | 21°30'37" ♈ | -16°59'25" | 04°47'02"  | 14°18'16"  | 0.002  |
| 01/05/2013 00:00:00 | ♁  | 28°43'52" ♈ | 09°29'30"  | -01°38'10" | 01°56'25"  | 1.280  |
| 01/05/2013 00:00:00 | ♁  | 19°22'37" ♈ | 17°12'08"  | -00°22'55" | 01°13'56"  | 1.702  |
| 01/05/2013 00:00:00 | ♁  | 07°50'07" ♈ | 13°52'22"  | -00°15'41" | 00°44'28"  | 2.447  |
| 01/05/2013 00:00:00 | ♁  | 17°29'16" ♈ | 22°31'47"  | -00°19'08" | 00°12'24"  | 5.876  |
| 01/05/2013 00:00:00 | ♁  | 08°00'44" ♎ | -11°38'17" | 02°40'54"  | -00°04'32" | 8.817  |
| 01/05/2013 00:00:00 | ♁  | 10°18'14" ♈ | 03°27'40"  | -00°40'20" | 00°03'03"  | 20.912 |
| 01/05/2013 00:00:00 | ♁  | 04°59'58" ♈ | -10°16'01" | -00°38'03" | 00°01'10"  | 30.386 |
| 01/05/2013 00:00:00 | ♁  | 11°30'12" ♈ | -19°40'09" | 03°16'49"  | -00°00'32" | 31.925 |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 01/05/2013 00:00:00 | ♏ | 16°52'18" ♎ | -16°52'26" | 00°00'00"  | 00°00'23"  | 0.002  |
| 01/05/2013 00:00:00 | ♋ | 12°51'39" ♋ | -01°59'24" | 05°07'40"  | 00°02'25"  | 18.009 |
| 01/05/2013 00:00:00 | ♋ | 25°36'42" ♋ | 20°09'56"  | -03°11'57" | 00°06'40"  | 0.003  |
| 01/05/2013 00:00:00 | ♏ | 16°52'18" ♎ | -16°52'26" | 00°00'00"  | 00°00'23"  | 0.002  |
| 01/05/2013 00:00:00 | ♋ | 29°33'36" ♋ | 18°54'54"  | -01°09'55" | -01°24'45" | 0.003  |
| 01/05/2013 00:00:00 | X | 22°28'23" ♋ | -03°15'33" | -12°54'47" | 00°00'37"  | 97.409 |
| 01/05/2013 00:00:00 | Y | 23°19'18" ♋ | 07°09'57"  | -11°47'30" | 00°00'45"  | 87.549 |
| 02/05/2013 00:00:00 | ♋ | 11°45'20" ♋ | 15°21'32"  | 00°00'00"  | 00°58'12"  | 1.008  |
| 02/05/2013 00:00:00 | ♎ | 05°40'36" ♎ | -13°48'42" | 05°11'29"  | 14°01'24"  | 0.002  |
| 02/05/2013 00:00:00 | ♋ | 00°41'09" ♋ | 10°17'55"  | -01°30'22" | 01°58'07"  | 1.289  |
| 02/05/2013 00:00:00 | ♋ | 20°36'34" ♋ | 17°34'12"  | -00°20'35" | 01°13'56"  | 1.700  |
| 02/05/2013 00:00:00 | ♋ | 08°34'34" ♋ | 14°07'17"  | -00°15'03" | 00°44'25"  | 2.448  |
| 02/05/2013 00:00:00 | ♋ | 17°41'42" ♋ | 22°33'03"  | -00°19'00" | 00°12'27"  | 5.885  |
| 02/05/2013 00:00:00 | ♋ | 07°56'11" ♎ | -11°36'52" | 02°40'52"  | -00°04'32" | 8.818  |
| 02/05/2013 00:00:00 | ♋ | 10°21'17" ♋ | 03°28'51"  | -00°40'20" | 00°03'02"  | 20.904 |
| 02/05/2013 00:00:00 | ♋ | 05°01'08" ♋ | -10°15'37" | -00°38'05" | 00°01'09"  | 30.370 |
| 02/05/2013 00:00:00 | ♋ | 11°29'39" ♋ | -19°40'13" | 03°16'48"  | -00°00'33" | 31.911 |
| 02/05/2013 00:00:00 | ♏ | 16°52'33" ♎ | -16°52'30" | 00°00'00"  | 00°00'07"  | 0.002  |
| 02/05/2013 00:00:00 | ♋ | 12°54'03" ♋ | -01°58'19" | 05°07'52"  | 00°02'22"  | 17.996 |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 02/05/2013 00:00:00 | ☾ | 25°43'23" ♀ | 20°09'27"  | -03°12'38" | 00°06'40"  | 0.003  |
| 02/05/2013 00:00:00 | ♁ | 16°52'33" ♀ | -16°52'30" | 00°00'00"  | 00°00'07"  | 0.002  |
| 02/05/2013 00:00:00 | ♁ | 28°39'37" ♂ | 18°48'03"  | -01°05'01" | -00°17'24" | 0.003  |
| 02/05/2013 00:00:00 | X | 22°29'01" ♂ | -03°15'20" | -12°54'48" | 00°00'37"  | 97.403 |
| 02/05/2013 00:00:00 | Υ | 23°20'04" ♂ | 07°10'10"  | -11°47'28" | 00°00'45"  | 87.552 |
| 03/05/2013 00:00:00 | ☉ | 12°43'33" ♂ | 15°39'20"  | 00°00'00"  | 00°58'11"  | 1.008  |
| 03/05/2013 00:00:00 | ♃ | 19°33'07" ♀ | -09°55'38" | 05°17'09"  | 13°43'32"  | 0.003  |
| 03/05/2013 00:00:00 | ♀ | 02°40'06" ♂ | 11°06'37"  | -01°22'08" | 01°59'47"  | 1.297  |
| 03/05/2013 00:00:00 | ♀ | 21°50'29" ♂ | 17°55'48"  | -00°18'14" | 01°13'55"  | 1.699  |
| 03/05/2013 00:00:00 | ♂ | 09°18'58" ♂ | 14°22'04"  | -00°14'25" | 00°44'22"  | 2.449  |
| 03/05/2013 00:00:00 | ♃ | 17°54'12" ♀ | 22°34'19"  | -00°18'52" | 00°12'31"  | 5.895  |
| 03/05/2013 00:00:00 | ♃ | 07°51'39" ♀ | -11°35'27" | 02°40'50"  | -00°04'32" | 8.819  |
| 03/05/2013 00:00:00 | ♃ | 10°24'19" ♂ | 03°30'01"  | -00°40'21" | 00°03'01"  | 20.895 |
| 03/05/2013 00:00:00 | ♃ | 05°02'16" ♀ | -10°15'13" | -00°38'07" | 00°01'07"  | 30.355 |
| 03/05/2013 00:00:00 | ♁ | 11°29'04" ♂ | -19°40'16" | 03°16'48"  | -00°00'35" | 31.896 |
| 03/05/2013 00:00:00 | ♁ | 16°52'33" ♀ | -16°52'30" | 00°00'00"  | -00°00'06" | 0.002  |
| 03/05/2013 00:00:00 | ♃ | 12°56'24" ♀ | -01°57'15" | 05°08'03"  | 00°02'19"  | 17.983 |
| 03/05/2013 00:00:00 | ☾ | 25°50'03" ♀ | 20°08'58"  | -03°13'20" | 00°06'40"  | 0.003  |
| 03/05/2013 00:00:00 | ♁ | 16°52'33" ♀ | -16°52'30" | 00°00'00"  | -00°00'06" | 0.002  |



Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 03/05/2013 00:00:00 | T♄ | 29°07'11" ♄ | 18°51'36"  | -01°07'30" | 01°14'48"  | 0.003  |
| 03/05/2013 00:00:00 | X  | 22°29'38" ♄ | -03°15'07" | -12°54'48" | 00°00'37"  | 97.398 |
| 03/05/2013 00:00:00 | Y  | 23°20'50" ♄ | 07°10'22"  | -11°47'26" | 00°00'45"  | 87.555 |
| 04/05/2013 00:00:00 | ☉  | 13°41'43" ♄ | 15°56'51"  | 00°00'00"  | 00°58'10"  | 1.008  |
| 04/05/2013 00:00:00 | ☾  | 03°07'44" ♄ | -05°36'43" | 05°04'52"  | 13°25'47"  | 0.003  |
| 04/05/2013 00:00:00 | ♀  | 04°40'42" ♄ | 11°55'28"  | -01°13'30" | 02°01'24"  | 1.304  |
| 04/05/2013 00:00:00 | ♀  | 23°04'24" ♄ | 18°16'56"  | -00°15'52" | 01°13'54"  | 1.697  |
| 04/05/2013 00:00:00 | ♂  | 10°03'20" ♄ | 14°36'42"  | -00°13'46" | 00°44'19"  | 2.450  |
| 04/05/2013 00:00:00 | ♃  | 18°06'44" ♄ | 22°35'34"  | -00°18'45" | 00°12'34"  | 5.904  |
| 04/05/2013 00:00:00 | ♅  | 07°47'07" ♄ | -11°34'02" | 02°40'47"  | -00°04'31" | 8.821  |
| 04/05/2013 00:00:00 | ♁  | 10°27'20" ♄ | 03°31'11"  | -00°40'22" | 00°02'59"  | 20.886 |
| 04/05/2013 00:00:00 | ♃  | 05°03'23" ♄ | -10°14'51" | -00°38'09" | 00°01'05"  | 30.339 |
| 04/05/2013 00:00:00 | ♁  | 11°28'28" ♄ | -19°40'20" | 03°16'47"  | -00°00'37" | 31.883 |
| 04/05/2013 00:00:00 | ♁  | 16°52'23" ♄ | -16°52'27" | 00°00'00"  | -00°00'13" | 0.002  |
| 04/05/2013 00:00:00 | ♃  | 12°58'43" ♄ | -01°56'11" | 05°08'15"  | 00°02'17"  | 17.969 |
| 04/05/2013 00:00:00 | ♄  | 25°56'44" ♄ | 20°08'29"  | -03°14'01" | 00°06'40"  | 0.003  |
| 04/05/2013 00:00:00 | T♁ | 16°52'23" ♄ | -16°52'27" | 00°00'00"  | -00°00'13" | 0.002  |
| 04/05/2013 00:00:00 | T♄ | 01°09'48" ♄ | 19°06'27"  | -01°18'34" | 02°48'51"  | 0.003  |
| 04/05/2013 00:00:00 | X  | 22°30'16" ♄ | -03°14'54" | -12°54'49" | 00°00'37"  | 97.392 |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 04/05/2013 00:00:00 | Y  | 23°21'36" ♉ | 07°10'35"  | -11°47'25" | 00°00'46"  | 87.557 |
| 05/05/2013 00:00:00 | ☉  | 14°39'53" ♉ | 16°14'07"  | 00°00'00"  | 00°58'08"  | 1.009  |
| 05/05/2013 00:00:00 | ☾  | 16°25'00" ♋ | -01°06'44" | 04°36'24"  | 13°08'56"  | 0.003  |
| 05/05/2013 00:00:00 | ♀  | 06°42'54" ♉ | 12°44'23"  | -01°04'28" | 02°02'58"  | 1.310  |
| 05/05/2013 00:00:00 | ♀  | 24°18'17" ♉ | 18°37'36"  | -00°13'29" | 01°13'53"  | 1.695  |
| 05/05/2013 00:00:00 | ♂  | 10°47'38" ♉ | 14°51'10"  | -00°13'08" | 00°44'16"  | 2.451  |
| 05/05/2013 00:00:00 | ♃  | 18°19'21" ♉ | 22°36'48"  | -00°18'37" | 00°12'37"  | 5.914  |
| 05/05/2013 00:00:00 | ♅  | 07°42'36" ♎ | -11°32'39" | 02°40'44"  | -00°04'30" | 8.823  |
| 05/05/2013 00:00:00 | ♁  | 10°30'18" ♉ | 03°32'20"  | -00°40'23" | 00°02'58"  | 20.877 |
| 05/05/2013 00:00:00 | ♃  | 05°04'27" ♋ | -10°14'29" | -00°38'10" | 00°01'03"  | 30.323 |
| 05/05/2013 00:00:00 | ♁  | 11°27'50" ♉ | -19°40'24" | 03°16'46"  | -00°00'38" | 31.869 |
| 05/05/2013 00:00:00 | ♁  | 16°52'09" ♎ | -16°52'23" | 00°00'00"  | -00°00'13" | 0.002  |
| 05/05/2013 00:00:00 | ♃  | 13°00'58" ♋ | -01°55'09" | 05°08'27"  | 00°02'14"  | 17.955 |
| 05/05/2013 00:00:00 | ♁  | 26°03'24" ♉ | 20°07'59"  | -03°14'42" | 00°06'40"  | 0.003  |
| 05/05/2013 00:00:00 | T♁ | 16°52'09" ♎ | -16°52'23" | 00°00'00"  | -00°00'13" | 0.002  |
| 05/05/2013 00:00:00 | T♃ | 04°38'43" ♉ | 19°28'16"  | -01°37'11" | 04°04'37"  | 0.003  |
| 05/05/2013 00:00:00 | X  | 22°30'53" ♉ | -03°14'42" | -12°54'50" | 00°00'36"  | 97.386 |
| 05/05/2013 00:00:00 | Y  | 23°22'22" ♉ | 07°10'47"  | -11°47'23" | 00°00'46"  | 87.559 |
| 06/05/2013 00:00:00 | ☉  | 15°38'01" ♉ | 16°31'07"  | 00°00'00"  | 00°58'07"  | 1.009  |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 06/05/2013 00:00:00 | ♃ | 29°26'03" ♈ | 03°21'19"  | 03°54'09"  | 12°53'23"  | 0.003  |
| 06/05/2013 00:00:00 | ♆ | 08°46'38" ♉ | 13°33'12"  | -00°55'05" | 02°04'28"  | 1.315  |
| 06/05/2013 00:00:00 | ♀ | 25°32'10" ♉ | 18°57'46"  | -00°11'05" | 01°13'52"  | 1.694  |
| 06/05/2013 00:00:00 | ♂ | 11°31'53" ♉ | 15°05'30"  | -00°12'29" | 00°44'13"  | 2.452  |
| 06/05/2013 00:00:00 | ♃ | 18°32'00" ♊ | 22°38'01"  | -00°18'30" | 00°12'41"  | 5.923  |
| 06/05/2013 00:00:00 | ♄ | 07°38'06" ♋ | -11°31'15" | 02°40'40"  | -00°04'29" | 8.825  |
| 06/05/2013 00:00:00 | ♅ | 10°33'16" ♋ | 03°33'29"  | -00°40'24" | 00°02'56"  | 20.867 |
| 06/05/2013 00:00:00 | ♆ | 05°05'30" ♋ | -10°14'07" | -00°38'12" | 00°01'01"  | 30.308 |
| 06/05/2013 00:00:00 | ♁ | 11°27'10" ♌ | -19°40'28" | 03°16'46"  | -00°00'40" | 31.855 |
| 06/05/2013 00:00:00 | ♁ | 16°51'57" ♌ | -16°52'20" | 00°00'00"  | -00°00'08" | 0.002  |
| 06/05/2013 00:00:00 | ♂ | 13°03'11" ♌ | -01°54'07" | 05°08'39"  | 00°02'11"  | 17.942 |
| 06/05/2013 00:00:00 | ♁ | 26°10'05" ♊ | 20°07'30"  | -03°15'23" | 00°06'40"  | 0.003  |
| 06/05/2013 00:00:00 | ♁ | 16°51'57" ♌ | -16°52'20" | 00°00'00"  | -00°00'08" | 0.002  |
| 06/05/2013 00:00:00 | ♁ | 09°08'36" ♊ | 19°49'48"  | -02°00'39" | 04°49'15"  | 0.003  |
| 06/05/2013 00:00:00 | X | 22°31'29" ♋ | -03°14'30" | -12°54'51" | 00°00'36"  | 97.380 |
| 06/05/2013 00:00:00 | Y | 23°23'09" ♉ | 07°10'59"  | -11°47'22" | 00°00'46"  | 87.561 |
| 07/05/2013 00:00:00 | ♁ | 16°36'07" ♉ | 16°47'50"  | 00°00'00"  | 00°58'05"  | 1.009  |
| 07/05/2013 00:00:00 | ♃ | 12°12'17" ♋ | 07°35'54"  | 03°00'55"  | 12°39'18"  | 0.003  |
| 07/05/2013 00:00:00 | ♆ | 10°51'48" ♉ | 14°21'48"  | -00°45'24" | 02°05'52"  | 1.319  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 07/05/2013 00:00:00 | ♀  | 26°46'01" ♉ | 19°17'26"  | -00°08'40" | 01°13'51"  | 1.692  |
| 07/05/2013 00:00:00 | ♂  | 12°16'05" ♉ | 15°19'40"  | -00°11'50" | 00°44'10"  | 2.453  |
| 07/05/2013 00:00:00 | ♃  | 18°44'43" ♉ | 22°39'13"  | -00°18'22" | 00°12'44"  | 5.932  |
| 07/05/2013 00:00:00 | ♄  | 07°33'37" ♉ | -11°29'52" | 02°40'36"  | -00°04'28" | 8.827  |
| 07/05/2013 00:00:00 | ♅  | 10°36'12" ♉ | 03°34'37"  | -00°40'25" | 00°02'55"  | 20.858 |
| 07/05/2013 00:00:00 | ♆  | 05°06'31" ♉ | -10°13'46" | -00°38'14" | 00°01'00"  | 30.292 |
| 07/05/2013 00:00:00 | ♁  | 11°26'29" ♉ | -19°40'32" | 03°16'45"  | -00°00'42" | 31.842 |
| 07/05/2013 00:00:00 | ♂  | 16°51'52" ♉ | -16°52'18" | 00°00'00"  | -00°00'01" | 0.002  |
| 07/05/2013 00:00:00 | ♂  | 13°05'22" ♉ | -01°53'06" | 05°08'52"  | 00°02'08"  | 17.928 |
| 07/05/2013 00:00:00 | ♁  | 26°16'45" ♉ | 20°07'00"  | -03°16'04" | 00°06'40"  | 0.003  |
| 07/05/2013 00:00:00 | T♂ | 16°51'52" ♉ | -16°52'18" | 00°00'00"  | -00°00'01" | 0.002  |
| 07/05/2013 00:00:00 | T♁ | 14°04'50" ♉ | 20°04'39"  | -02°25'33" | 04°56'59"  | 0.003  |
| 07/05/2013 00:00:00 | X  | 22°32'06" ♉ | -03°14'18" | -12°54'52" | 00°00'36"  | 97.373 |
| 07/05/2013 00:00:00 | Y  | 23°23'55" ♉ | 07°11'11"  | -11°47'21" | 00°00'46"  | 87.563 |
| 08/05/2013 00:00:00 | ☾  | 17°34'12" ♉ | 17°04'16"  | 00°00'00"  | 00°58'04"  | 1.009  |
| 08/05/2013 00:00:00 | ♃  | 24°45'11" ♉ | 11°26'36"  | 01°59'48"  | 12°26'44"  | 0.003  |
| 08/05/2013 00:00:00 | ♁  | 12°58'19" ♉ | 15°10'01"  | -00°35'25" | 02°07'08"  | 1.322  |
| 08/05/2013 00:00:00 | ♀  | 27°59'52" ♉ | 19°36'35"  | -00°06'14" | 01°13'50"  | 1.690  |
| 08/05/2013 00:00:00 | ♂  | 13°00'14" ♉ | 15°33'41"  | -00°11'12" | 00°44'07"  | 2.454  |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 08/05/2013 00:00:00 | ♃ | 18°57'29" ♀ | 22°40'24"  | -00°18'15" | 00°12'47"  | 5.940  |
| 08/05/2013 00:00:00 | ♃ | 07°29'09" ♃ | -11°28'30" | 02°40'32"  | -00°04'27" | 8.830  |
| 08/05/2013 00:00:00 | ♃ | 10°39'06" ♃ | 03°35'45"  | -00°40'26" | 00°02'53"  | 20.848 |
| 08/05/2013 00:00:00 | ♃ | 05°07'31" ♃ | -10°13'26" | -00°38'16" | 00°00'58"  | 30.276 |
| 08/05/2013 00:00:00 | ♃ | 11°25'46" ♃ | -19°40'37" | 03°16'44"  | -00°00'43" | 31.828 |
| 08/05/2013 00:00:00 | ♃ | 16°51'54" ♃ | -16°52'19" | 00°00'00"  | 00°00'03"  | 0.002  |
| 08/05/2013 00:00:00 | ♃ | 13°07'29" ♃ | -01°52'06" | 05°09'04"  | 00°02'05"  | 17.914 |
| 08/05/2013 00:00:00 | ♃ | 26°23'26" ♀ | 20°06'29"  | -03°16'45" | 00°06'40"  | 0.003  |
| 08/05/2013 00:00:00 | ♃ | 16°51'54" ♃ | -16°52'19" | 00°00'00"  | 00°00'03"  | 0.002  |
| 08/05/2013 00:00:00 | ♃ | 18°50'52" ♀ | 20°10'06"  | -02°48'31" | 04°29'51"  | 0.003  |
| 08/05/2013 00:00:00 | X | 22°32'42" ♃ | -03°14'06" | -12°54'53" | 00°00'36"  | 97.366 |
| 08/05/2013 00:00:00 | Y | 23°24'41" ♃ | 07°11'23"  | -11°47'19" | 00°00'46"  | 87.564 |
| 09/05/2013 00:00:00 | ♃ | 18°32'15" ♃ | 17°20'25"  | 00°00'00"  | 00°58'02"  | 1.010  |
| 09/05/2013 00:00:00 | ♃ | 07°06'16" ♃ | 14°43'57"  | 00°53'58"  | 12°15'42"  | 0.003  |
| 09/05/2013 00:00:00 | ♃ | 15°06'03" ♃ | 15°57'40"  | -00°25'13" | 02°08'17"  | 1.324  |
| 09/05/2013 00:00:00 | ♃ | 29°13'42" ♃ | 19°55'12"  | -00°03'48" | 01°13'49"  | 1.688  |
| 09/05/2013 00:00:00 | ♃ | 13°44'20" ♃ | 15°47'33"  | -00°10'33" | 00°44'04"  | 2.455  |
| 09/05/2013 00:00:00 | ♃ | 19°10'17" ♀ | 22°41'34"  | -00°18'08" | 00°12'50"  | 5.949  |
| 09/05/2013 00:00:00 | ♃ | 07°24'43" ♃ | -11°27'09" | 02°40'28"  | -00°04'25" | 8.833  |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 09/05/2013 00:00:00 | ♃ | 10°41'59" ♀ | 03°36'52"  | -00°40'27" | 00°02'52"  | 20.838 |
| 09/05/2013 00:00:00 | ♃ | 05°08'28" ♀ | -10°13'07" | -00°38'18" | 00°00'56"  | 30.259 |
| 09/05/2013 00:00:00 | ♃ | 11°25'01" ♀ | -19°40'41" | 03°16'43"  | -00°00'45" | 31.815 |
| 09/05/2013 00:00:00 | ♃ | 16°51'58" ♀ | -16°52'20" | 00°00'00"  | 00°00'04"  | 0.002  |
| 09/05/2013 00:00:00 | ♃ | 13°09'33" ♀ | -01°51'07" | 05°09'17"  | 00°02'03"  | 17.899 |
| 09/05/2013 00:00:00 | ♃ | 26°30'06" ♀ | 20°05'59"  | -03°17'26" | 00°06'40"  | 0.003  |
| 09/05/2013 00:00:00 | ♃ | 16°51'58" ♀ | -16°52'20" | 00°00'00"  | 00°00'04"  | 0.002  |
| 09/05/2013 00:00:00 | ♃ | 22°56'22" ♀ | 20°07'48"  | -03°07'18" | 03°38'25"  | 0.003  |
| 09/05/2013 00:00:00 | X | 22°33'18" ♀ | -03°13'55" | -12°54'55" | 00°00'35"  | 97.359 |
| 09/05/2013 00:00:00 | Y | 23°25'28" ♀ | 07°11'35"  | -11°47'19" | 00°00'46"  | 87.565 |
| 10/05/2013 00:00:00 | ♃ | 19°30'17" ♀ | 17°36'17"  | 00°00'00"  | 00°58'01"  | 1.010  |
| 10/05/2013 00:00:00 | ♃ | 19°17'07" ♀ | 17°19'47"  | -00°13'26" | 12°06'15"  | 0.003  |
| 10/05/2013 00:00:00 | ♃ | 17°14'51" ♀ | 16°44'34"  | -00°14'51" | 02°09'15"  | 1.325  |
| 10/05/2013 00:00:00 | ♃ | 00°27'31" ♀ | 20°13'17"  | -00°01'21" | 01°13'48"  | 1.686  |
| 10/05/2013 00:00:00 | ♃ | 14°28'23" ♀ | 16°01'14"  | -00°09'55" | 00°44'01"  | 2.456  |
| 10/05/2013 00:00:00 | ♃ | 19°23'09" ♀ | 22°42'44"  | -00°18'00" | 00°12'53"  | 5.957  |
| 10/05/2013 00:00:00 | ♃ | 07°20'18" ♀ | -11°25'48" | 02°40'23"  | -00°04'24" | 8.837  |
| 10/05/2013 00:00:00 | ♃ | 10°44'51" ♀ | 03°37'58"  | -00°40'27" | 00°02'50"  | 20.827 |
| 10/05/2013 00:00:00 | ♃ | 05°09'24" ♀ | -10°12'48" | -00°38'20" | 00°00'54"  | 30.243 |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 10/05/2013 00:00:00 | ♁ | 11°24'15" ♏ | -19°40'46" | 03°16'42"  | -00°00'46" | 31.802 |
| 10/05/2013 00:00:00 | ♁ | 16°52'00" ♏ | -16°52'20" | 00°00'00"  | -00°00'01" | 0.002  |
| 10/05/2013 00:00:00 | ♁ | 13°11'35" ♏ | -01°50'09" | 05°09'30"  | 00°02'00"  | 17.885 |
| 10/05/2013 00:00:00 | ♁ | 26°36'47" ♏ | 20°05'28"  | -03°18'07" | 00°06'40"  | 0.003  |
| 10/05/2013 00:00:00 | ♁ | 16°52'00" ♏ | -16°52'20" | 00°00'00"  | -00°00'01" | 0.002  |
| 10/05/2013 00:00:00 | ♁ | 26°05'21" ♏ | 20°01'40"  | -03°21'04" | 02°39'53"  | 0.003  |
| 10/05/2013 00:00:00 | X | 22°33'54" ♏ | -03°13'43" | -12°54'56" | 00°00'35"  | 97.352 |
| 10/05/2013 00:00:00 | Y | 23°26'14" ♏ | 07°11'46"  | -11°47'18" | 00°00'46"  | 87.565 |
| 11/05/2013 00:00:00 | ♁ | 20°28'18" ♏ | 17°51'51"  | 00°00'00"  | 00°57'59"  | 1.010  |
| 11/05/2013 00:00:00 | ♁ | 01°19'23" ♏ | 19°07'31"  | -01°19'27" | 11°58'35"  | 0.003  |
| 11/05/2013 00:00:00 | ♁ | 19°24'31" ♏ | 17°30'31"  | -00°04'21" | 02°10'02"  | 1.325  |
| 11/05/2013 00:00:00 | ♁ | 01°41'18" ♏ | 20°30'50"  | 00°01'05"  | 01°13'47"  | 1.684  |
| 11/05/2013 00:00:00 | ♁ | 15°12'23" ♏ | 16°14'46"  | -00°09'16" | 00°43'58"  | 2.456  |
| 11/05/2013 00:00:00 | ♁ | 19°36'04" ♏ | 22°43'52"  | -00°17'53" | 00°12'56"  | 5.965  |
| 11/05/2013 00:00:00 | ♁ | 07°15'54" ♏ | -11°24'28" | 02°40'18"  | -00°04'22" | 8.840  |
| 11/05/2013 00:00:00 | ♁ | 10°47'41" ♏ | 03°39'03"  | -00°40'29" | 00°02'48"  | 20.817 |
| 11/05/2013 00:00:00 | ♁ | 05°10'18" ♏ | -10°12'30" | -00°38'21" | 00°00'52"  | 30.227 |
| 11/05/2013 00:00:00 | ♁ | 11°23'27" ♏ | -19°40'51" | 03°16'41"  | -00°00'48" | 31.789 |
| 11/05/2013 00:00:00 | ♁ | 16°51'53" ♏ | -16°52'18" | 00°00'00"  | -00°00'12" | 0.002  |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 11/05/2013 00:00:00 | ♄ | 13°13'34" ♈ | -01°49'12" | 05°09'43"  | 00°01'57"  | 17.871 |
| 11/05/2013 00:00:00 | ♁ | 26°43'27" ♈ | 20°04'57"  | -03°18'48" | 00°06'40"  | 0.003  |
| 11/05/2013 00:00:00 | ♁ | 16°51'53" ♈ | -16°52'18" | 00°00'00"  | -00°00'12" | 0.002  |
| 11/05/2013 00:00:00 | ♁ | 28°19'32" ♈ | 19°55'02"  | -03°30'28" | 01°51'12"  | 0.003  |
| 11/05/2013 00:00:00 | X | 22°34'29" ♈ | -03°13'32" | -12°54'58" | 00°00'35"  | 97.344 |
| 11/05/2013 00:00:00 | Y | 23°27'01" ♈ | 07°11'58"  | -11°47'17" | 00°00'46"  | 87.566 |
| 12/05/2013 00:00:00 | ♁ | 21°26'16" ♈ | 18°07'08"  | -00°00'00" | 00°57'57"  | 1.010  |
| 12/05/2013 00:00:00 | ♁ | 13°14'58" ♈ | 20°02'52"  | -02°21'21" | 11°52'56"  | 0.003  |
| 12/05/2013 00:00:00 | ♁ | 21°34'51" ♈ | 18°15'21"  | 00°06'11"  | 02°10'34"  | 1.323  |
| 12/05/2013 00:00:00 | ♁ | 02°55'05" ♈ | 20°47'49"  | 00°03'32"  | 01°13'46"  | 1.682  |
| 12/05/2013 00:00:00 | ♁ | 15°56'19" ♈ | 16°28'08"  | -00°08'37" | 00°43'55"  | 2.457  |
| 12/05/2013 00:00:00 | ♁ | 19°49'02" ♈ | 22°44'59"  | -00°17'46" | 00°12'58"  | 5.973  |
| 12/05/2013 00:00:00 | ♁ | 07°11'33" ♈ | -11°23'08" | 02°40'12"  | -00°04'20" | 8.844  |
| 12/05/2013 00:00:00 | ♁ | 10°50'29" ♈ | 03°40'08"  | -00°40'30" | 00°02'47"  | 20.806 |
| 12/05/2013 00:00:00 | ♁ | 05°11'10" ♈ | -10°12'13" | -00°38'23" | 00°00'51"  | 30.210 |
| 12/05/2013 00:00:00 | ♁ | 11°22'38" ♈ | -19°40'56" | 03°16'40"  | -00°00'49" | 31.777 |
| 12/05/2013 00:00:00 | ♁ | 16°51'33" ♈ | -16°52'13" | 00°00'00"  | -00°00'28" | 0.002  |
| 12/05/2013 00:00:00 | ♁ | 13°15'30" ♈ | -01°48'16" | 05°09'56"  | 00°01'54"  | 17.856 |
| 12/05/2013 00:00:00 | ♁ | 26°50'08" ♈ | 20°04'26"  | -03°19'28" | 00°06'40"  | 0.003  |



Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 12/05/2013 00:00:00 | T♄ | 16°51'33" ♍ | -16°52'13" | 00°00'00"  | -00°00'28" | 0.002  |
| 12/05/2013 00:00:00 | T♄ | 29°54'11" ♍ | 19°49'14"  | -03°36'54" | 01°21'24"  | 0.003  |
| 12/05/2013 00:00:00 | X  | 22°35'05" ♀ | -03°13'21" | -12°55'00" | 00°00'35"  | 97.336 |
| 12/05/2013 00:00:00 | Y  | 23°27'48" ♄ | 07°12'09"  | -11°47'17" | 00°00'46"  | 87.566 |
| 13/05/2013 00:00:00 | ♁  | 22°24'14" ♄ | 18°22'06"  | -00°00'00" | 00°57'56"  | 1.010  |
| 13/05/2013 00:00:00 | ♃  | 25°06'04" ♍ | 20°04'05"  | -03°16'44" | 11°49'42"  | 0.003  |
| 13/05/2013 00:00:00 | ♁  | 23°45'37" ♄ | 18°58'49"  | 00°16'43"  | 02°10'54"  | 1.320  |
| 13/05/2013 00:00:00 | ♁  | 04°08'50" ♍ | 21°04'14"  | 00°06'00"  | 01°13'44"  | 1.680  |
| 13/05/2013 00:00:00 | ♂  | 16°40'13" ♄ | 16°41'20"  | -00°07'58" | 00°43'51"  | 2.458  |
| 13/05/2013 00:00:00 | ♃  | 20°02'02" ♍ | 22°46'04"  | -00°17'39" | 00°13'01"  | 5.981  |
| 13/05/2013 00:00:00 | ♃  | 07°07'14" ♍ | -11°21'50" | 02°40'07"  | -00°04'18" | 8.848  |
| 13/05/2013 00:00:00 | ♁  | 10°53'15" ♀ | 03°41'12"  | -00°40'31" | 00°02'45"  | 20.795 |
| 13/05/2013 00:00:00 | ♁  | 05°12'00" ♃ | -10°11'56" | -00°38'25" | 00°00'49"  | 30.194 |
| 13/05/2013 00:00:00 | ♁  | 11°21'48" ♄ | -19°41'02" | 03°16'38"  | -00°00'51" | 31.764 |
| 13/05/2013 00:00:00 | ♁  | 16°50'57" ♍ | -16°52'02" | 00°00'00"  | -00°00'43" | 0.002  |
| 13/05/2013 00:00:00 | ♁  | 13°17'23" ♃ | -01°47'21" | 05°10'09"  | 00°01'51"  | 17.842 |
| 13/05/2013 00:00:00 | ♁  | 26°56'49" ♍ | 20°03'55"  | -03°20'09" | 00°06'40"  | 0.003  |
| 13/05/2013 00:00:00 | T♄ | 16°50'57" ♍ | -16°52'02" | 00°00'00"  | -00°00'43" | 0.002  |
| 13/05/2013 00:00:00 | T♄ | 01°08'05" ♃ | 19°44'02"  | -03°41'48" | 01°08'37"  | 0.003  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 13/05/2013 00:00:00 | X  | 22°35'40" ♀ | -03°13'10" | -12°55'02" | 00°00'34"  | 97.328 |
| 13/05/2013 00:00:00 | Y  | 23°28'35" ♂ | 07°12'21"  | -11°47'16" | 00°00'46"  | 87.566 |
| 14/05/2013 00:00:00 | ☉  | 23°22'09" ♂ | 18°36'45"  | -00°00'00" | 00°57'54"  | 1.011  |
| 14/05/2013 00:00:00 | ☾  | 06°55'20" ♀ | 19°12'04"  | -04°03'32" | 11°49'19"  | 0.003  |
| 14/05/2013 00:00:00 | ♁  | 25°56'35" ♂ | 19°40'43"  | 00°27'10"  | 02°10'57"  | 1.315  |
| 14/05/2013 00:00:00 | ♂  | 05°22'35" ♀ | 21°20'04"  | 00°08'28"  | 01°13'43"  | 1.677  |
| 14/05/2013 00:00:00 | ♂  | 17°24'03" ♂ | 16°54'22"  | -00°07'20" | 00°43'48"  | 2.459  |
| 14/05/2013 00:00:00 | ♂  | 20°15'04" ♀ | 22°47'09"  | -00°17'32" | 00°13'04"  | 5.989  |
| 14/05/2013 00:00:00 | ♃  | 07°02'56" ♀ | -11°20'33" | 02°40'01"  | -00°04'16" | 8.853  |
| 14/05/2013 00:00:00 | ♃  | 10°56'00" ♀ | 03°42'16"  | -00°40'32" | 00°02'43"  | 20.784 |
| 14/05/2013 00:00:00 | ♃  | 05°12'48" ♀ | -10°11'40" | -00°38'27" | 00°00'47"  | 30.177 |
| 14/05/2013 00:00:00 | ♃  | 11°20'56" ♀ | -19°41'07" | 03°16'37"  | -00°00'52" | 31.752 |
| 14/05/2013 00:00:00 | ♃  | 16°50'07" ♀ | -16°51'48" | 00°00'00"  | -00°00'54" | 0.002  |
| 14/05/2013 00:00:00 | ♃  | 13°19'13" ♀ | -01°46'27" | 05°10'22"  | 00°01'48"  | 17.827 |
| 14/05/2013 00:00:00 | ♃  | 27°03'30" ♀ | 20°03'23"  | -03°20'49" | 00°06'40"  | 0.003  |
| 14/05/2013 00:00:00 | T♃ | 16°50'07" ♀ | -16°51'48" | 00°00'00"  | -00°00'54" | 0.002  |
| 14/05/2013 00:00:00 | T♃ | 02°14'10" ♀ | 19°38'54"  | -03°46'07" | 01°04'00"  | 0.003  |
| 14/05/2013 00:00:00 | X  | 22°36'14" ♀ | -03°13'00" | -12°55'04" | 00°00'34"  | 97.320 |
| 14/05/2013 00:00:00 | Y  | 23°29'22" ♂ | 07°12'32"  | -11°47'16" | 00°00'46"  | 87.565 |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 15/05/2013 00:00:00 | ☉ | 24°20'03" ♈ | 18°51'05"  | -00°00'00" | 00°57'52"  | 1.011  |
| 15/05/2013 00:00:00 | ☾ | 18°45'50" ♎ | 17°29'56"  | -04°39'59" | 11°52'16"  | 0.003  |
| 15/05/2013 00:00:00 | ♃ | 28°07'28" ♈ | 20°20'53"  | 00°37'28"  | 02°10'44"  | 1.309  |
| 15/05/2013 00:00:00 | ♂ | 06°36'18" ♉ | 21°35'18"  | 00°10'55"  | 01°13'42"  | 1.675  |
| 15/05/2013 00:00:00 | ♂ | 18°07'50" ♈ | 17°07'14"  | -00°06'41" | 00°43'45"  | 2.459  |
| 15/05/2013 00:00:00 | ♃ | 20°28'10" ♉ | 22°48'13"  | -00°17'25" | 00°13'06"  | 5.996  |
| 15/05/2013 00:00:00 | ♃ | 06°58'41" ♎ | -11°19'16" | 02°39'54"  | -00°04'14" | 8.858  |
| 15/05/2013 00:00:00 | ♃ | 10°58'43" ♉ | 03°43'19"  | -00°40'33" | 00°02'42"  | 20.773 |
| 15/05/2013 00:00:00 | ♃ | 05°13'35" ♉ | -10°11'25" | -00°38'29" | 00°00'45"  | 30.161 |
| 15/05/2013 00:00:00 | ♃ | 11°20'03" ♎ | -19°41'13" | 03°16'36"  | -00°00'54" | 31.740 |
| 15/05/2013 00:00:00 | ♃ | 16°49'11" ♎ | -16°51'32" | 00°00'00"  | -00°00'57" | 0.002  |
| 15/05/2013 00:00:00 | ♃ | 13°21'00" ♉ | -01°45'34" | 05°10'36"  | 00°01'45"  | 17.812 |
| 15/05/2013 00:00:00 | ♃ | 27°10'10" ♉ | 20°02'52"  | -03°21'30" | 00°06'40"  | 0.003  |
| 15/05/2013 00:00:00 | ♃ | 16°49'11" ♎ | -16°51'32" | 00°00'00"  | -00°00'57" | 0.002  |
| 15/05/2013 00:00:00 | ♃ | 03°15'28" ♎ | 19°33'43"  | -03°50'04" | 00°57'33"  | 0.003  |
| 15/05/2013 00:00:00 | X | 22°36'49" ♉ | -03°12'49" | -12°55'06" | 00°00'34"  | 97.311 |
| 15/05/2013 00:00:00 | Y | 23°30'08" ♈ | 07°12'43"  | -11°47'16" | 00°00'46"  | 87.565 |
| 16/05/2013 00:00:00 | ☉ | 25°17'55" ♈ | 19°05'07"  | -00°00'00" | 00°57'51"  | 1.011  |
| 16/05/2013 00:00:00 | ☾ | 00°41'08" ♎ | 15°02'22"  | -05°04'38" | 11°58'59"  | 0.003  |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 16/05/2013 00:00:00 | ♀ | 00°17'59" ♀ | 20°59'06"  | 00°47'32"  | 02°10'14"  | 1.301  |
| 16/05/2013 00:00:00 | ♀ | 07°50'00" ♀ | 21°49'57"  | 00°13'23"  | 01°13'41"  | 1.673  |
| 16/05/2013 00:00:00 | ♂ | 18°51'34" ♂ | 17°19'55"  | -00°06'02" | 00°43'42"  | 2.460  |
| 16/05/2013 00:00:00 | ♃ | 20°41'17" ♀ | 22°49'16"  | -00°17'18" | 00°13'08"  | 6.004  |
| 16/05/2013 00:00:00 | ♃ | 06°54'28" ♃ | -11°18'00" | 02°39'48"  | -00°04'11" | 8.863  |
| 16/05/2013 00:00:00 | ♃ | 11°01'24" ♃ | 03°44'21"  | -00°40'34" | 00°02'40"  | 20.761 |
| 16/05/2013 00:00:00 | ♃ | 05°14'19" ♃ | -10°11'10" | -00°38'31" | 00°00'43"  | 30.144 |
| 16/05/2013 00:00:00 | ♃ | 11°19'08" ♃ | -19°41'19" | 03°16'34"  | -00°00'55" | 31.728 |
| 16/05/2013 00:00:00 | ♃ | 16°48'16" ♃ | -16°51'17" | 00°00'00"  | -00°00'49" | 0.002  |
| 16/05/2013 00:00:00 | ♃ | 13°22'44" ♃ | -01°44'42" | 05°10'49"  | 00°01'42"  | 17.797 |
| 16/05/2013 00:00:00 | ♃ | 27°16'51" ♀ | 20°02'20"  | -03°22'10" | 00°06'40"  | 0.003  |
| 16/05/2013 00:00:00 | ♃ | 16°48'16" ♃ | -16°51'17" | 00°00'00"  | -00°00'49" | 0.002  |
| 16/05/2013 00:00:00 | ♃ | 04°06'08" ♃ | 19°29'08"  | -03°53'17" | 00°41'48"  | 0.003  |
| 16/05/2013 00:00:00 | X | 22°37'23" ♃ | -03°12'39" | -12°55'08" | 00°00'33"  | 97.302 |
| 16/05/2013 00:00:00 | Y | 23°30'55" ♂ | 07°12'54"  | -11°47'16" | 00°00'46"  | 87.564 |
| 17/05/2013 00:00:00 | ♃ | 26°15'45" ♂ | 19°18'49"  | -00°00'00" | 00°57'49"  | 1.011  |
| 17/05/2013 00:00:00 | ♃ | 12°45'11" ♂ | 11°55'06"  | -05°16'15" | 12°09'50"  | 0.003  |
| 17/05/2013 00:00:00 | ♀ | 02°27'51" ♀ | 21°35'12"  | 00°57'17"  | 02°09'27"  | 1.292  |
| 17/05/2013 00:00:00 | ♀ | 09°03'41" ♀ | 22°03'59"  | 00°15'51"  | 01°13'40"  | 1.670  |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 17/05/2013 00:00:00 | ♂ | 19°35'14" ♉ | 17°32'26"  | -00°05'23" | 00°43'38"  | 2.461  |
| 17/05/2013 00:00:00 | ♃ | 20°54'27" ♉ | 22°50'17"  | -00°17'11" | 00°13'11"  | 6.011  |
| 17/05/2013 00:00:00 | ♃ | 06°50'17" ♎ | -11°16'46" | 02°39'41"  | -00°04'09" | 8.868  |
| 17/05/2013 00:00:00 | ♃ | 11°04'03" ♎ | 03°45'22"  | -00°40'35" | 00°02'38"  | 20.749 |
| 17/05/2013 00:00:00 | ♃ | 05°15'02" ♎ | -10°10'57" | -00°38'33" | 00°00'41"  | 30.128 |
| 17/05/2013 00:00:00 | ♃ | 11°18'11" ♎ | -19°41'25" | 03°16'33"  | -00°00'56" | 31.717 |
| 17/05/2013 00:00:00 | ♁ | 16°47'35" ♎ | -16°51'05" | 00°00'00"  | -00°00'31" | 0.002  |
| 17/05/2013 00:00:00 | ♃ | 13°24'25" ♎ | -01°43'51" | 05°11'03"  | 00°01'39"  | 17.782 |
| 17/05/2013 00:00:00 | ♁ | 27°23'32" ♉ | 20°01'47"  | -03°22'50" | 00°06'40"  | 0.003  |
| 17/05/2013 00:00:00 | ♁ | 16°47'35" ♎ | -16°51'05" | 00°00'00"  | -00°00'31" | 0.002  |
| 17/05/2013 00:00:00 | ♁ | 04°34'38" ♉ | 19°26'25"  | -03°55'06" | 00°12'52"  | 0.003  |
| 17/05/2013 00:00:00 | X | 22°37'57" ♎ | -03°12'29" | -12°55'11" | 00°00'33"  | 97.293 |
| 17/05/2013 00:00:00 | Y | 23°31'42" ♉ | 07°13'04"  | -11°47'16" | 00°00'46"  | 87.562 |
| 18/05/2013 00:00:00 | ♁ | 27°13'34" ♉ | 19°32'11"  | -00°00'00" | 00°57'47"  | 1.011  |
| 18/05/2013 00:00:00 | ♁ | 25°02'14" ♉ | 08°14'26"  | -05°13'46" | 12°24'58"  | 0.003  |
| 18/05/2013 00:00:00 | ♁ | 04°36'47" ♉ | 22°09'01"  | 01°06'40"  | 02°08'22"  | 1.282  |
| 18/05/2013 00:00:00 | ♀ | 10°17'20" ♉ | 22°17'24"  | 00°18'18"  | 01°13'38"  | 1.668  |
| 18/05/2013 00:00:00 | ♂ | 20°18'51" ♉ | 17°44'46"  | -00°04'44" | 00°43'35"  | 2.461  |
| 18/05/2013 00:00:00 | ♃ | 21°07'39" ♉ | 22°51'17"  | -00°17'04" | 00°13'13"  | 6.018  |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 18/05/2013 00:00:00 | ♃ | 06°46'09" ♍ | -11°15'32" | 02°39'33"  | -00°04'06" | 8.874  |
| 18/05/2013 00:00:00 | ♃ | 11°06'41" ♏ | 03°46'22"  | -00°40'36" | 00°02'36"  | 20.737 |
| 18/05/2013 00:00:00 | ♃ | 05°15'42" ♏ | -10°10'43" | -00°38'35" | 00°00'39"  | 30.111 |
| 18/05/2013 00:00:00 | ♃ | 11°17'14" ♏ | -19°41'32" | 03°16'31"  | -00°00'58" | 31.705 |
| 18/05/2013 00:00:00 | ♃ | 16°47'16" ♍ | -16°51'00" | 00°00'00"  | -00°00'05" | 0.002  |
| 18/05/2013 00:00:00 | ♃ | 13°26'03" ♏ | -01°43'01" | 05°11'17"  | 00°01'36"  | 17.767 |
| 18/05/2013 00:00:00 | ♃ | 27°30'13" ♏ | 20°01'15"  | -03°23'30" | 00°06'40"  | 0.003  |
| 18/05/2013 00:00:00 | ♃ | 16°47'16" ♍ | -16°51'00" | 00°00'00"  | -00°00'05" | 0.002  |
| 18/05/2013 00:00:00 | ♃ | 04°27'26" ♏ | 19°27'05"  | -03°54'40" | -00°29'15" | 0.003  |
| 18/05/2013 00:00:00 | X | 22°38'30" ♏ | -03°12'20" | -12°55'13" | 00°00'33"  | 97.284 |
| 18/05/2013 00:00:00 | Y | 23°32'29" ♏ | 07°13'15"  | -11°47'16" | 00°00'46"  | 87.561 |
| 19/05/2013 00:00:00 | ♃ | 28°11'21" ♏ | 19°45'13"  | -00°00'00" | 00°57'46"  | 1.012  |
| 19/05/2013 00:00:00 | ♃ | 07°36'32" ♏ | 04°07'27"  | -04°56'26" | 12°44'17"  | 0.003  |
| 19/05/2013 00:00:00 | ♃ | 06°44'31" ♏ | 22°40'26"  | 01°15'36"  | 02°07'02"  | 1.271  |
| 19/05/2013 00:00:00 | ♃ | 11°30'58" ♏ | 22°30'11"  | 00°20'45"  | 01°13'37"  | 1.665  |
| 19/05/2013 00:00:00 | ♃ | 21°02'25" ♏ | 17°56'55"  | -00°04'06" | 00°43'32"  | 2.462  |
| 19/05/2013 00:00:00 | ♃ | 21°20'54" ♏ | 22°52'16"  | -00°16'57" | 00°13'15"  | 6.024  |
| 19/05/2013 00:00:00 | ♃ | 06°42'04" ♍ | -11°14'20" | 02°39'26"  | -00°04'03" | 8.880  |
| 19/05/2013 00:00:00 | ♃ | 11°09'16" ♏ | 03°47'22"  | -00°40'37" | 00°02'34"  | 20.725 |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 19/05/2013 00:00:00 | ♁  | 05°16'21" ♈ | -10°10'31" | -00°38'36" | 00°00'37"  | 30.094 |
| 19/05/2013 00:00:00 | ♁  | 11°16'15" ♈ | -19°41'38" | 03°16'29"  | -00°00'59" | 31.694 |
| 19/05/2013 00:00:00 | ♁  | 16°47'25" ♈ | -16°51'02" | 00°00'00"  | 00°00'24"  | 0.002  |
| 19/05/2013 00:00:00 | ♁  | 13°27'38" ♈ | -01°42'12" | 05°11'31"  | 00°01'33"  | 17.752 |
| 19/05/2013 00:00:00 | ♁  | 27°36'53" ♈ | 20°00'42"  | -03°24'10" | 00°06'40"  | 0.003  |
| 19/05/2013 00:00:00 | T♁ | 16°47'25" ♈ | -16°51'02" | 00°00'00"  | 00°00'24"  | 0.002  |
| 19/05/2013 00:00:00 | T♁ | 03°33'12" ♈ | 19°32'05"  | -03°51'16" | -01°19'55" | 0.003  |
| 19/05/2013 00:00:00 | X  | 22°39'03" ♈ | -03°12'10" | -12°55'16" | 00°00'32"  | 97.274 |
| 19/05/2013 00:00:00 | Y  | 23°33'15" ♈ | 07°13'25"  | -11°47'17" | 00°00'46"  | 87.559 |
| 20/05/2013 00:00:00 | ♁  | 29°09'06" ♈ | 19°57'55"  | -00°00'00" | 00°57'44"  | 1.012  |
| 20/05/2013 00:00:00 | ♁  | 20°32'04" ♈ | -00°17'39" | -04°23'51" | 13°07'18"  | 0.003  |
| 20/05/2013 00:00:00 | ♁  | 08°50'47" ♈ | 23°09'21"  | 01°24'01"  | 02°05'27"  | 1.258  |
| 20/05/2013 00:00:00 | ♁  | 12°44'35" ♈ | 22°42'20"  | 00°23'11"  | 01°13'36"  | 1.663  |
| 20/05/2013 00:00:00 | ♁  | 21°45'55" ♈ | 18°08'54"  | -00°03'27" | 00°43'28"  | 2.462  |
| 20/05/2013 00:00:00 | ♁  | 21°34'10" ♈ | 22°53'14"  | -00°16'50" | 00°13'17"  | 6.031  |
| 20/05/2013 00:00:00 | ♁  | 06°38'01" ♈ | -11°13'08" | 02°39'18"  | -00°04'01" | 8.886  |
| 20/05/2013 00:00:00 | ♁  | 11°11'50" ♈ | 03°48'21"  | -00°40'39" | 00°02'32"  | 20.713 |
| 20/05/2013 00:00:00 | ♁  | 05°16'57" ♈ | -10°10'19" | -00°38'38" | 00°00'35"  | 30.077 |
| 20/05/2013 00:00:00 | ♁  | 11°15'14" ♈ | -19°41'45" | 03°16'28"  | -00°01'01" | 31.683 |

Ephemerides year 2013

|                     |    |             |            |             |            |        |
|---------------------|----|-------------|------------|-------------|------------|--------|
| 20/05/2013 00:00:00 | ♏  | 16°48'03" ♎ | -16°51'13" | 00°00'00"   | 00°00'50"  | 0.002  |
| 20/05/2013 00:00:00 | ♋  | 13°29'09" ♋ | -01°41'25" | 05°11'45"   | 00°01'30"  | 17.737 |
| 20/05/2013 00:00:00 | ♋  | 27°43'34" ♋ | 20°00'09"  | -03°24'50"  | 00°06'40"  | 0.003  |
| 20/05/2013 00:00:00 | T♏ | 16°48'03" ♎ | -16°51'13" | 00°00'00"   | 00°00'50"  | 0.002  |
| 20/05/2013 00:00:00 | T♋ | 01°48'03" ♋ | 19°40'57"  | -03°44'28"  | -02°09'01" | 0.003  |
| 20/05/2013 00:00:00 | X  | 22°39'35" ♋ | -03°12'01" | -12°55'18"  | 00°00'32"  | 97.264 |
| 20/05/2013 00:00:00 | Y  | 23°34'02" ♋ | 07°13'36"  | -11°47'17"  | 00°00'46"  | 87.557 |
| 21/05/2013 00:00:00 | ♏  | 00°06'49" ♋ | 20°10'16"  | -00°00'00"  | 00°57'42"  | 1.012  |
| 21/05/2013 00:00:00 | ♎  | 03°52'02" ♎ | -04°50'40" | -03°36'15"  | 13°32'57"  | 0.003  |
| 21/05/2013 00:00:00 | ♋  | 10°55'21" ♋ | 23°35'40"  | ♏ 01°31'53" | 02°03'38"  | 1.244  |
| 21/05/2013 00:00:00 | ♋  | 13°58'11" ♋ | 22°53'51"  | 00°25'37"   | 01°13'35"  | 1.660  |
| 21/05/2013 00:00:00 | ♋  | 22°29'22" ♋ | 18°20'42"  | -00°02'48"  | 00°43'25"  | 2.463  |
| 21/05/2013 00:00:00 | ♋  | 21°47'28" ♋ | 22°54'11"  | -00°16'43"  | 00°13'19"  | 6.037  |
| 21/05/2013 00:00:00 | ♋  | 06°34'02" ♎ | -11°11'58" | 02°39'10"   | -00°03'58" | 8.893  |
| 21/05/2013 00:00:00 | ♋  | 11°14'21" ♋ | 03°49'19"  | -00°40'40"  | 00°02'30"  | 20.700 |
| 21/05/2013 00:00:00 | ♋  | 05°17'32" ♋ | -10°10'08" | -00°38'40"  | 00°00'33"  | 30.061 |
| 21/05/2013 00:00:00 | ♋  | 11°14'12" ♋ | -19°41'52" | 03°16'26"   | -00°01'02" | 31.672 |
| 21/05/2013 00:00:00 | ♏  | 16°49'02" ♎ | -16°51'30" | 00°00'00"   | 00°01'05"  | 0.002  |
| 21/05/2013 00:00:00 | ♋  | 13°30'38" ♋ | -01°40'38" | 05°11'59"   | 00°01'26"  | 17.722 |



Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 21/05/2013 00:00:00 | ☾ | 27°50'15" ♀ | 19°59'36"  | -03°25'29" | 00°06'40"  | 0.003  |
| 21/05/2013 00:00:00 | ♄ | 16°49'02" ♀ | -16°51'30" | 00°00'00"  | 00°01'05"  | 0.002  |
| 21/05/2013 00:00:00 | ♄ | 29°20'12" ♀ | 19°51'31"  | -03°34'31" | -02°43'03" | 0.003  |
| 21/05/2013 00:00:00 | X | 22°40'07" ♀ | -03°11'52" | -12°55'21" | 00°00'31"  | 97.254 |
| 21/05/2013 00:00:00 | Y | 23°34'48" ♀ | 07°13'46"  | -11°47'18" | 00°00'46"  | 87.554 |
| 22/05/2013 00:00:00 | ☉ | 01°04'31" ♀ | 20°22'17"  | -00°00'00" | 00°57'41"  | 1.012  |
| 22/05/2013 00:00:00 | ☾ | 17°38'20" ♀ | -09°18'22" | -02°34'51" | 13°59'37"  | 0.002  |
| 22/05/2013 00:00:00 | ♀ | 12°57'59" ♀ | 23°59'22"  | 01°39'08"  | 02°01'36"  | 1.229  |
| 22/05/2013 00:00:00 | ♀ | 15°11'46" ♀ | 23°04'42"  | 00°28'02"  | 01°13'33"  | 1.657  |
| 22/05/2013 00:00:00 | ♂ | 23°12'46" ♀ | 18°32'19"  | -00°02'09" | 00°43'22"  | 2.463  |
| 22/05/2013 00:00:00 | ♃ | 22°00'48" ♀ | 22°55'06"  | -00°16'37" | 00°13'21"  | 6.043  |
| 22/05/2013 00:00:00 | ♃ | 06°30'05" ♀ | -11°10'49" | 02°39'01"  | -00°03'54" | 8.899  |
| 22/05/2013 00:00:00 | ♃ | 11°16'51" ♀ | 03°50'16"  | -00°40'41" | 00°02'28"  | 20.688 |
| 22/05/2013 00:00:00 | ♃ | 05°18'05" ♀ | -10°09'58" | -00°38'42" | 00°00'31"  | 30.044 |
| 22/05/2013 00:00:00 | ♃ | 11°13'09" ♀ | -19°41'59" | 03°16'24"  | -00°01'03" | 31.662 |
| 22/05/2013 00:00:00 | ♄ | 16°50'08" ♀ | -16°51'48" | 00°00'00"  | 00°01'02"  | 0.002  |
| 22/05/2013 00:00:00 | ♃ | 13°32'03" ♀ | -01°39'52" | 05°12'13"  | 00°01'23"  | 17.706 |
| 22/05/2013 00:00:00 | ☾ | 27°56'55" ♀ | 19°59'03"  | -03°26'09" | 00°06'40"  | 0.003  |
| 22/05/2013 00:00:00 | ♄ | 16°50'08" ♀ | -16°51'48" | 00°00'00"  | 00°01'02"  | 0.002  |

Ephemerides year 2013

|                     |    |             |             |            |            |        |
|---------------------|----|-------------|-------------|------------|------------|--------|
| 22/05/2013 00:00:00 | T♄ | 26°30'29" ♀ | 20°00'52"   | -03°22'34" | -02°51'50" | 0.003  |
| 22/05/2013 00:00:00 | X  | 22°40'39" ♀ | -03°11'44"  | -12°55'24" | 00°00'31"  | 97.244 |
| 22/05/2013 00:00:00 | Y  | 23°35'35" ♂ | 07°13'56"   | -11°47'19" | 00°00'46"  | 87.552 |
| 23/05/2013 00:00:00 | ☉  | 02°02'12" ♀ | 20°33'57"   | -00°00'00" | 00°57'39"  | 1.012  |
| 23/05/2013 00:00:00 | ☾  | 01°50'53" ♀ | -13°23'56"  | -01°22'09" | 14°25'04"  | 0.002  |
| 23/05/2013 00:00:00 | ♀  | 14°58'30" ♀ | 24°20'24" ♀ | 01°45'43"  | 01°59'24"  | 1.213  |
| 23/05/2013 00:00:00 | ♀  | 16°25'19" ♀ | 23°14'53"   | 00°30'27"  | 01°13'32"  | 1.654  |
| 23/05/2013 00:00:00 | ♂  | 23°56'07" ♂ | 18°43'44"   | -00°01'30" | 00°43'18"  | 2.464  |
| 23/05/2013 00:00:00 | ♃  | 22°14'10" ♀ | 22°56'00"   | -00°16'30" | 00°13'22"  | 6.049  |
| 23/05/2013 00:00:00 | ♅  | 06°26'12" ♀ | -11°09'41"  | 02°38'53"  | -00°03'51" | 8.906  |
| 23/05/2013 00:00:00 | ♁  | 11°19'18" ♀ | 03°51'13"   | -00°40'43" | 00°02'26"  | 20.675 |
| 23/05/2013 00:00:00 | ♆  | 05°18'36" ♀ | -10°09'49"  | -00°38'44" | 00°00'29"  | 30.027 |
| 23/05/2013 00:00:00 | ♁  | 11°12'05" ♀ | -19°42'06"  | 03°16'22"  | -00°01'04" | 31.651 |
| 23/05/2013 00:00:00 | ♁  | 16°51'01" ♀ | -16°52'04"  | 00°00'00"  | 00°00'41"  | 0.002  |
| 23/05/2013 00:00:00 | ♁  | 13°33'26" ♀ | -01°39'08"  | 05°12'27"  | 00°01'20"  | 17.691 |
| 23/05/2013 00:00:00 | ♁  | 28°03'36" ♀ | 19°58'29"   | -03°26'48" | 00°06'40"  | 0.003  |
| 23/05/2013 00:00:00 | T♁ | 16°51'01" ♀ | -16°52'04"  | 00°00'00"  | 00°00'41"  | 0.002  |
| 23/05/2013 00:00:00 | T♄ | 23°44'43" ♀ | 20°07'04"   | -03°10'24" | -02°36'26" | 0.003  |
| 23/05/2013 00:00:00 | X  | 22°41'11" ♀ | -03°11'35"  | -12°55'27" | 00°00'31"  | 97.234 |

Ephemerides year 2013

|                     |    |             |             |            |            |        |
|---------------------|----|-------------|-------------|------------|------------|--------|
| 23/05/2013 00:00:00 | Y  | 23°36'21" ♃ | 07°14'06"   | -11°47'20" | 00°00'46"  | 87.549 |
| 24/05/2013 00:00:00 | ☉  | 02°59'51" ♈ | 20°45'15"   | 00°00'00"  | 00°57'38"  | 1.013  |
| 24/05/2013 00:00:00 | ☾  | 16°27'11" ♎ | -16°47'24"  | -00°02'14" | 14°46'38"  | 0.002  |
| 24/05/2013 00:00:00 | ♀  | 16°56'44" ♈ | 24°38'47" ○ | 01°51'36"  | 01°57'02"  | 1.196  |
| 24/05/2013 00:00:00 | ♀  | 17°38'51" ♈ | 23°24'25"   | 00°32'50"  | 01°13'31"  | 1.652  |
| 24/05/2013 00:00:00 | ♂  | 24°39'24" ♃ | 18°54'59"   | -00°00'51" | 00°43'15"  | 2.464  |
| 24/05/2013 00:00:00 | ♃  | 22°27'34" ♈ | 22°56'53"   | -00°16'23" | 00°13'24"  | 6.055  |
| 24/05/2013 00:00:00 | ♅  | 06°22'22" ♎ | -11°08'35"  | 02°38'44"  | -00°03'48" | 8.914  |
| 24/05/2013 00:00:00 | ♁  | 11°21'44" ♈ | 03°52'08"   | -00°40'44" | 00°02'24"  | 20.662 |
| 24/05/2013 00:00:00 | ♃  | 05°19'05" ♈ | -10°09'40"  | -00°38'46" | 00°00'28"  | 30.010 |
| 24/05/2013 00:00:00 | ♁  | 11°11'00" ♃ | -19°42'13"  | 03°16'20"  | -00°01'05" | 31.641 |
| 24/05/2013 00:00:00 | ♎  | 16°51'24" ♎ | -16°52'10"  | 00°00'00"  | 00°00'01"  | 0.002  |
| 24/05/2013 00:00:00 | ♃  | 13°34'45" ♈ | -01°38'24"  | 05°12'41"  | 00°01'17"  | 17.675 |
| 24/05/2013 00:00:00 | ♁  | 28°10'17" ♈ | 19°57'55"   | -03°27'28" | 00°06'40"  | 0.003  |
| 24/05/2013 00:00:00 | T♎ | 16°51'24" ♎ | -16°52'10"  | 00°00'00"  | 00°00'01"  | 0.002  |
| 24/05/2013 00:00:00 | T♁ | 21°21'25" ♈ | 20°10'05"   | -02°59'30" | -02°09'40" | 0.003  |
| 24/05/2013 00:00:00 | X  | 22°41'42" ♈ | -03°11'27"  | -12°55'30" | 00°00'30"  | 97.223 |
| 24/05/2013 00:00:00 | Y  | 23°37'08" ♃ | 07°14'15"   | -11°47'21" | 00°00'46"  | 87.546 |
| 25/05/2013 00:00:00 | ☉  | 03°57'29" ♈ | 20°56'13"   | 00°00'00"  | 00°57'37"  | 1.013  |

Ephemerides year 2013

|                     |   |             |             |            |            |        |
|---------------------|---|-------------|-------------|------------|------------|--------|
| 25/05/2013 00:00:00 | ♃ | 01°22'00" ♄ | -19°08'04"  | 01°19'25"  | 15°01'43"  | 0.002  |
| 25/05/2013 00:00:00 | ♆ | 18°52'33" ♀ | 24°54'32" ○ | 01°56'46"  | 01°54'33"  | 1.179  |
| 25/05/2013 00:00:00 | ♀ | 18°52'22" ♀ | 23°33'16" ○ | 00°35'13"  | 01°13'30"  | 1.649  |
| 25/05/2013 00:00:00 | ♂ | 25°22'38" ♄ | 19°06'02"   | -00°00'12" | 00°43'12"  | 2.464  |
| 25/05/2013 00:00:00 | ♃ | 22°41'00" ♀ | 22°57'45"   | -00°16'17" | 00°13'26"  | 6.061  |
| 25/05/2013 00:00:00 | ♄ | 06°18'35" ♃ | -11°07'30"  | 02°38'34"  | -00°03'44" | 8.921  |
| 25/05/2013 00:00:00 | ♃ | 11°24'07" ♄ | 03°53'03"   | -00°40'45" | 00°02'22"  | 20.649 |
| 25/05/2013 00:00:00 | ♃ | 05°19'32" ♃ | -10°09'31"  | -00°38'48" | 00°00'26"  | 29.993 |
| 25/05/2013 00:00:00 | ♃ | 11°09'53" ♄ | -19°42'21"  | 03°16'17"  | -00°01'07" | 31.631 |
| 25/05/2013 00:00:00 | ♃ | 16°51'00" ♃ | -16°52'03"  | 00°00'00"  | -00°00'48" | 0.002  |
| 25/05/2013 00:00:00 | ♃ | 13°36'01" ♃ | -01°37'42"  | 05°12'56"  | 00°01'14"  | 17.660 |
| 25/05/2013 00:00:00 | ♃ | 28°16'58" ♀ | 19°57'21"   | -03°28'07" | 00°06'40"  | 0.003  |
| 25/05/2013 00:00:00 | ♃ | 16°51'00" ♃ | -16°52'03"  | 00°00'00"  | -00°00'48" | 0.002  |
| 25/05/2013 00:00:00 | ♃ | 19°23'37" ♃ | 20°10'53"   | -02°50'21" | -01°47'56" | 0.003  |
| 25/05/2013 00:00:00 | X | 22°42'13" ♄ | -03°11'19"  | -12°55'34" | 00°00'30"  | 97.212 |
| 25/05/2013 00:00:00 | Y | 23°37'54" ♄ | 07°14'25"   | -11°47'22" | 00°00'46"  | 87.542 |
| 26/05/2013 00:00:00 | ♃ | 04°55'06" ♀ | 21°06'48"   | 00°00'00"  | 00°57'36"  | 1.013  |
| 26/05/2013 00:00:00 | ♃ | 16°27'46" ♄ | -20°09'10"  | 02°36'27"  | 15°08'15"  | 0.002  |
| 26/05/2013 00:00:00 | ♆ | 20°45'49" ♀ | 25°07'43" ○ | 02°01'10"  | 01°51'57"  | 1.161  |

Ephemerides year 2013

|                     |    |             |             |            |            |        |
|---------------------|----|-------------|-------------|------------|------------|--------|
| 26/05/2013 00:00:00 | ♀  | 20°05'52" ♀ | 23°41'26" ♀ | 00°37'34"  | 01°13'29"  | 1.646  |
| 26/05/2013 00:00:00 | ♂  | 26°05'49" ♂ | 19°16'54"   | 00°00'26"  | 00°43'09"  | 2.465  |
| 26/05/2013 00:00:00 | ♃  | 22°54'27" ♀ | 22°58'35"   | -00°16'10" | 00°13'28"  | 6.066  |
| 26/05/2013 00:00:00 | ♄  | 06°14'52" ♃ | -11°06'26"  | 02°38'25"  | -00°03'41" | 8.929  |
| 26/05/2013 00:00:00 | ♅  | 11°26'29" ♃ | 03°53'57"   | -00°40'46" | 00°02'20"  | 20.635 |
| 26/05/2013 00:00:00 | ♆  | 05°19'57" ♃ | -10°09'24"  | -00°38'50" | 00°00'24"  | 29.976 |
| 26/05/2013 00:00:00 | ♇  | 11°08'46" ♂ | -19°42'29"  | 03°16'15"  | -00°01'08" | 31.622 |
| 26/05/2013 00:00:00 | ♈  | 16°49'46" ♃ | -16°51'42"  | 00°00'00"  | -00°01'39" | 0.002  |
| 26/05/2013 00:00:00 | ♉  | 13°37'14" ♃ | -01°37'01"  | 05°13'10"  | 00°01'11"  | 17.644 |
| 26/05/2013 00:00:00 | ♊  | 28°23'39" ♀ | 19°56'47"   | -03°28'46" | 00°06'40"  | 0.003  |
| 26/05/2013 00:00:00 | T♈ | 16°49'46" ♃ | -16°51'42"  | 00°00'00"  | -00°01'39" | 0.002  |
| 26/05/2013 00:00:00 | T♉ | 17°40'05" ♀ | 20°10'18"   | -02°42'11" | -01°42'11" | 0.003  |
| 26/05/2013 00:00:00 | X  | 22°42'43" ♃ | -03°11'11"  | -12°55'37" | 00°00'30"  | 97.201 |
| 26/05/2013 00:00:00 | Y  | 23°38'40" ♂ | 07°14'34"   | -11°47'24" | 00°00'46"  | 87.538 |
| 27/05/2013 00:00:00 | ☉  | 05°52'41" ♀ | 21°17'02"   | 00°00'00"  | 00°57'34"  | 1.013  |
| 27/05/2013 00:00:00 | ☽  | 01°35'21" ♂ | -19°42'58"  | 03°42'36"  | 15°05'21"  | 0.002  |
| 27/05/2013 00:00:00 | ♁  | 22°36'26" ♀ | 25°18'22" ♀ | 02°04'49"  | 01°49'16"  | 1.142  |
| 27/05/2013 00:00:00 | ♀  | 21°19'21" ♀ | 23°48'55" ♀ | 00°39'54"  | 01°13'28"  | 1.643  |
| 27/05/2013 00:00:00 | ♂  | 26°48'57" ♂ | 19°27'35"   | 00°01'04"  | 00°43'06"  | 2.465  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 27/05/2013 00:00:00 | ♃  | 23°07'56" ♀ | 22°59'24"  | -00°16'04" | 00°13'29"  | 6.071  |
| 27/05/2013 00:00:00 | ♅  | 06°11'13" ♃ | -11°05'23" | 02°38'15"  | -00°03'37" | 8.937  |
| 27/05/2013 00:00:00 | ♁  | 11°28'48" ♀ | 03°54'50"  | -00°40'48" | 00°02'18"  | 20.622 |
| 27/05/2013 00:00:00 | ♆  | 05°20'21" ♀ | -10°09'17" | -00°38'52" | 00°00'22"  | 29.959 |
| 27/05/2013 00:00:00 | ♁  | 11°07'37" ♀ | -19°42'37" | 03°16'13"  | -00°01'09" | 31.612 |
| 27/05/2013 00:00:00 | ♁  | 16°47'46" ♃ | -16°51'08" | 00°00'00"  | -00°02'17" | 0.002  |
| 27/05/2013 00:00:00 | ♆  | 13°38'24" ♀ | -01°36'21" | 05°13'25"  | 00°01'08"  | 17.629 |
| 27/05/2013 00:00:00 | ♁  | 28°30'20" ♀ | 19°56'12"  | -03°29'25" | 00°06'41"  | 0.003  |
| 27/05/2013 00:00:00 | T♁ | 16°47'46" ♃ | -16°51'08" | 00°00'00"  | -00°02'17" | 0.002  |
| 27/05/2013 00:00:00 | T♆ | 15°53'35" ♀ | 20°08'23"  | -02°33'45" | -01°52'57" | 0.003  |
| 27/05/2013 00:00:00 | X  | 22°43'13" ♀ | -03°11'04" | -12°55'40" | 00°00'29"  | 97.190 |
| 27/05/2013 00:00:00 | Y  | 23°39'26" ♀ | 07°14'43"  | -11°47'25" | 00°00'46"  | 87.534 |
| 28/05/2013 00:00:00 | ♁  | 06°50'15" ♀ | 21°26'54"  | 00°00'00"  | 00°57'33"  | 1.013  |
| 28/05/2013 00:00:00 | ♁  | 16°35'30" ♀ | -17°53'29" | 04°32'50"  | 14°53'36"  | 0.002  |
| 28/05/2013 00:00:00 | ♁  | 24°24'19" ♀ | 25°26'36"  | 02°07'40"  | 01°46'30"  | 1.123  |
| 28/05/2013 00:00:00 | ♁  | 22°32'48" ♀ | 23°55'43"  | 00°42'13"  | 01°13'27"  | 1.640  |
| 28/05/2013 00:00:00 | ♁  | 27°32'02" ♀ | 19°38'04"  | 00°01'43"  | 00°43'03"  | 2.465  |
| 28/05/2013 00:00:00 | ♃  | 23°21'27" ♀ | 23°00'11"  | -00°15'57" | 00°13'31"  | 6.076  |
| 28/05/2013 00:00:00 | ♅  | 06°07'37" ♃ | -11°04'22" | 02°38'05"  | -00°03'34" | 8.945  |

Ephemerides year 2013

|                     |    |             |             |            |            |        |
|---------------------|----|-------------|-------------|------------|------------|--------|
| 28/05/2013 00:00:00 | ♃  | 11°31'06" ♀ | 03°55'43"   | -00°40'49" | 00°02'16"  | 20.608 |
| 28/05/2013 00:00:00 | ♃  | 05°20'42" ♀ | -10°09'11"  | -00°38'54" | 00°00'20"  | 29.942 |
| 28/05/2013 00:00:00 | ♃  | 11°06'27" ♀ | -19°42'45"  | 03°16'10"  | -00°01'10" | 31.603 |
| 28/05/2013 00:00:00 | ♃  | 16°45'18" ♀ | -16°50'26"  | 00°00'00"  | -00°02'33" | 0.002  |
| 28/05/2013 00:00:00 | ♃  | 13°39'30" ♀ | -01°35'42"  | 05°13'40"  | 00°01'04"  | 17.613 |
| 28/05/2013 00:00:00 | ♃  | 28°37'01" ♀ | 19°55'38"   | -03°30'04" | 00°06'40"  | 0.003  |
| 28/05/2013 00:00:00 | T♃ | 16°45'18" ♀ | -16°50'26"  | 00°00'00"  | -00°02'33" | 0.002  |
| 28/05/2013 00:00:00 | T♃ | 13°52'06" ♀ | 20°04'39"   | -02°24'02" | -02°09'34" | 0.003  |
| 28/05/2013 00:00:00 | X  | 22°43'43" ♀ | -03°10'56"  | -12°55'44" | 00°00'29"  | 97.179 |
| 28/05/2013 00:00:00 | Y  | 23°40'12" ♀ | 07°14'52"   | -11°47'27" | 00°00'45"  | 87.530 |
| 29/05/2013 00:00:00 | ♃  | 07°47'49" ♀ | 21°36'23"   | 00°00'00"  | 00°57'32"  | 1.014  |
| 29/05/2013 00:00:00 | ♃  | 01°20'12" ♀ | -14°54'44"  | 05°04'01"  | 14°34'48"  | 0.002  |
| 29/05/2013 00:00:00 | ♃  | 26°09'26" ♀ | 25°32'28" ♀ | 02°09'44"  | 01°43'41"  | 1.104  |
| 29/05/2013 00:00:00 | ♃  | 23°46'15" ♀ | 24°01'48" ♀ | 00°44'31"  | 01°13'26"  | 1.637  |
| 29/05/2013 00:00:00 | ♃  | 28°15'04" ♀ | 19°48'22"   | 00°02'22"  | 00°43'00"  | 2.466  |
| 29/05/2013 00:00:00 | ♃  | 23°34'59" ♀ | 23°00'58"   | -00°15'51" | 00°13'32"  | 6.081  |
| 29/05/2013 00:00:00 | ♃  | 06°04'05" ♀ | -11°03'23"  | 02°37'55"  | -00°03'30" | 8.954  |
| 29/05/2013 00:00:00 | ♃  | 11°33'21" ♀ | 03°56'34"   | -00°40'51" | 00°02'13"  | 20.594 |
| 29/05/2013 00:00:00 | ♃  | 05°21'02" ♀ | -10°09'06"  | -00°38'56" | 00°00'18"  | 29.926 |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 29/05/2013 00:00:00 | ♁ | 11°05'16" ♏ | -19°42'53" | 03°16'08"  | -00°01'11" | 31.594 |
| 29/05/2013 00:00:00 | ♁ | 16°42'47" ♎ | -16°49'43" | 00°00'00"  | -00°02'21" | 0.002  |
| 29/05/2013 00:00:00 | ♁ | 13°40'33" ♏ | -01°35'05" | 05°13'54"  | 00°01'01"  | 17.597 |
| 29/05/2013 00:00:00 | ♁ | 28°43'42" ♏ | 19°55'03"  | -03°30'43" | 00°06'40"  | 0.003  |
| 29/05/2013 00:00:00 | ♁ | 16°42'47" ♎ | -16°49'43" | 00°00'00"  | -00°02'21" | 0.002  |
| 29/05/2013 00:00:00 | ♁ | 11°38'30" ♏ | 19°58'40"  | -02°13'10" | -02°14'02" | 0.003  |
| 29/05/2013 00:00:00 | X | 22°44'12" ♏ | -03°10'49" | -12°55'48" | 00°00'28"  | 97.167 |
| 29/05/2013 00:00:00 | Y | 23°40'58" ♏ | 07°15'01"  | -11°47'29" | 00°00'45"  | 87.525 |
| 30/05/2013 00:00:00 | ♁ | 08°45'21" ♏ | 21°45'30"  | 00°00'00"  | 00°57'32"  | 1.014  |
| 30/05/2013 00:00:00 | ♁ | 15°43'39" ♏ | -11°05'49" | 05°15'10"  | 14°11'35"  | 0.002  |
| 30/05/2013 00:00:00 | ♁ | 27°51'42" ♏ | 25°36'05"  | 02°11'00"  | 01°40'50"  | 1.084  |
| 30/05/2013 00:00:00 | ♁ | 24°59'41" ♏ | 24°07'12"  | 00°46'46"  | 01°13'25"  | 1.634  |
| 30/05/2013 00:00:00 | ♁ | 28°58'02" ♏ | 19°58'28"  | 00°03'01"  | 00°42'57"  | 2.466  |
| 30/05/2013 00:00:00 | ♁ | 23°48'32" ♏ | 23°01'43"  | -00°15'44" | 00°13'33"  | 6.086  |
| 30/05/2013 00:00:00 | ♁ | 06°00'37" ♎ | -11°02'24" | 02°37'44"  | -00°03'26" | 8.963  |
| 30/05/2013 00:00:00 | ♁ | 11°35'34" ♏ | 03°57'25"  | -00°40'52" | 00°02'11"  | 20.580 |
| 30/05/2013 00:00:00 | ♁ | 05°21'19" ♏ | -10°09'01" | -00°38'58" | 00°00'16"  | 29.909 |
| 30/05/2013 00:00:00 | ♁ | 11°04'04" ♏ | -19°43'02" | 03°16'05"  | -00°01'12" | 31.586 |
| 30/05/2013 00:00:00 | ♁ | 16°40'42" ♎ | -16°49'07" | 00°00'00"  | -00°01'44" | 0.002  |



Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 30/05/2013 00:00:00 | ♁ | 13°41'33" ♋ | -01°34'28" | 05°14'09"  | 00°00'58"  | 17.582 |
| 30/05/2013 00:00:00 | ♁ | 28°50'23" ♋ | 19°54'27"  | -03°31'22" | 00°06'40"  | 0.003  |
| 30/05/2013 00:00:00 | ♁ | 16°40'42" ♋ | -16°49'07" | 00°00'00"  | -00°01'44" | 0.002  |
| 30/05/2013 00:00:00 | ♁ | 09°33'19" ♋ | 19°51'20"  | -02°02'49" | -01°51'05" | 0.003  |
| 30/05/2013 00:00:00 | X | 22°44'41" ♋ | -03°10'43" | -12°55'51" | 00°00'28"  | 97.155 |
| 30/05/2013 00:00:00 | Y | 23°41'44" ♋ | 07°15'10"  | -11°47'31" | 00°00'45"  | 87.521 |
| 31/05/2013 00:00:00 | ♁ | 09°42'53" ♋ | 21°54'14"  | 00°00'00"  | 00°57'31"  | 1.014  |
| 31/05/2013 00:00:00 | ♁ | 29°42'47" ♋ | -06°46'20" | 05°07'07"  | 13°46'35"  | 0.003  |
| 31/05/2013 00:00:00 | ♁ | 29°31'05" ♋ | 25°37'33"  | 02°11'28"  | 01°37'56"  | 1.064  |
| 31/05/2013 00:00:00 | ♁ | 26°13'06" ♋ | 24°11'53"  | 00°49'01"  | 01°13'24"  | 1.630  |
| 31/05/2013 00:00:00 | ♁ | 29°40'58" ♋ | 20°08'22"  | 00°03'40"  | 00°42'53"  | 2.466  |
| 31/05/2013 00:00:00 | ♁ | 24°02'06" ♋ | 23°02'26"  | -00°15'38" | 00°13'35"  | 6.090  |
| 31/05/2013 00:00:00 | ♁ | 05°57'12" ♋ | -11°01'28" | 02°37'33"  | -00°03'22" | 8.972  |
| 31/05/2013 00:00:00 | ♁ | 11°37'44" ♋ | 03°58'14"  | -00°40'54" | 00°02'09"  | 20.566 |
| 31/05/2013 00:00:00 | ♁ | 05°21'34" ♋ | -10°08'57" | -00°39'00" | 00°00'14"  | 29.892 |
| 31/05/2013 00:00:00 | ♁ | 11°02'50" ♋ | -19°43'10" | 03°16'02"  | -00°01'13" | 31.577 |
| 31/05/2013 00:00:00 | ♁ | 16°39'25" ♋ | -16°48'45" | 00°00'00"  | -00°00'48" | 0.002  |
| 31/05/2013 00:00:00 | ♁ | 13°42'30" ♋ | -01°33'53" | 05°14'24"  | 00°00'55"  | 17.566 |
| 31/05/2013 00:00:00 | ♁ | 28°57'04" ♋ | 19°53'52"  | -03°32'01" | 00°06'40"  | 0.003  |

Ephemerides year 2013

|                     |    |             |             |            |            |        |
|---------------------|----|-------------|-------------|------------|------------|--------|
| 31/05/2013 00:00:00 | T♄ | 16°39'25" ♍ | -16°48'45"  | 00°00'00"  | -00°00'48" | 0.002  |
| 31/05/2013 00:00:00 | T♄ | 08°06'19" ♍ | 19°45'16"   | -01°55'32" | -00°58'37" | 0.003  |
| 31/05/2013 00:00:00 | X  | 22°45'09" ♄ | -03°10'36"  | -12°55'55" | 00°00'27"  | 97.143 |
| 31/05/2013 00:00:00 | Y  | 23°42'29" ♃ | 07°15'19"   | -11°47'33" | 00°00'45"  | 87.515 |
| 01/06/2013 00:00:00 | ☉  | 10°40'24" ♍ | 22°02'36"   | 00°00'00"  | 00°57'30"  | 1.014  |
| 01/06/2013 00:00:00 | ☾  | 13°17'01" ♋ | -02°13'34"  | 04°41'56"  | 13°22'07"  | 0.003  |
| 01/06/2013 00:00:00 | ♀  | 01°07'34" ♉ | 25°36'59" ♁ | 02°11'08"  | 01°35'00"  | 1.045  |
| 01/06/2013 00:00:00 | ♀  | 27°26'29" ♍ | 24°15'52" ♁ | 00°51'13"  | 01°13'23"  | 1.627  |
| 01/06/2013 00:00:00 | ♂  | 00°23'50" ♍ | 20°18'04"   | 00°04'18"  | 00°42'50"  | 2.466  |
| 01/06/2013 00:00:00 | ♃  | 24°15'42" ♍ | 23°03'09"   | -00°15'32" | 00°13'36"  | 6.094  |
| 01/06/2013 00:00:00 | ♅  | 05°53'52" ♍ | -11°00'32"  | 02°37'22"  | -00°03'18" | 8.981  |
| 01/06/2013 00:00:00 | ♁  | 11°39'52" ♄ | 03°59'03"   | -00°40'55" | 00°02'07"  | 20.552 |
| 01/06/2013 00:00:00 | ♂  | 05°21'48" ♋ | -10°08'54"  | -00°39'02" | 00°00'12"  | 29.875 |
| 01/06/2013 00:00:00 | ♁  | 11°01'36" ♄ | -19°43'19"  | 03°16'00"  | -00°01'14" | 31.569 |
| 01/06/2013 00:00:00 | ♁  | 16°39'07" ♍ | -16°48'40"  | 00°00'00"  | 00°00'12"  | 0.002  |
| 01/06/2013 00:00:00 | ♁  | 13°43'23" ♋ | -01°33'19"  | 05°14'39"  | 00°00'51"  | 17.550 |
| 01/06/2013 00:00:00 | ♁  | 29°03'44" ♍ | 19°53'16"   | -03°32'39" | 00°06'40"  | 0.003  |
| 01/06/2013 00:00:00 | T♄ | 16°39'07" ♍ | -16°48'40"  | 00°00'00"  | 00°00'12"  | 0.002  |
| 01/06/2013 00:00:00 | T♄ | 07°42'04" ♍ | 19°43'26"   | -01°53'29" | 00°11'43"  | 0.003  |

Ephemerides year 2013

|                     |    |             |             |            |            |        |
|---------------------|----|-------------|-------------|------------|------------|--------|
| 01/06/2013 00:00:00 | X  | 22°45'37" ♃ | -03°10'30"  | -12°55'59" | 00°00'27"  | 97.131 |
| 01/06/2013 00:00:00 | Y  | 23°43'14" ♄ | 07°15'27"   | -11°47'35" | 00°00'45"  | 87.510 |
| 02/06/2013 00:00:00 | ☉  | 11°37'54" ♌ | 22°10'34"   | 00°00'00"  | 00°57'29"  | 1.014  |
| 02/06/2013 00:00:00 | ☾  | 26°27'44" ♋ | 02°18'08"   | 04°02'26"  | 12°59'46"  | 0.003  |
| 02/06/2013 00:00:00 | ♀  | 02°41'05" ♋ | 25°34'28" ♁ | 02°10'00"  | 01°32'02"  | 1.025  |
| 02/06/2013 00:00:00 | ♀  | 28°39'52" ♌ | 24°19'08" ♁ | 00°53'24"  | 01°13'22"  | 1.624  |
| 02/06/2013 00:00:00 | ♂  | 01°06'40" ♌ | 20°27'34"   | 00°04'57"  | 00°42'47"  | 2.466  |
| 02/06/2013 00:00:00 | ♃  | 24°29'19" ♌ | 23°03'50"   | -00°15'25" | 00°13'37"  | 6.098  |
| 02/06/2013 00:00:00 | ♅  | 05°50'35" ♌ | -10°59'39"  | 02°37'11"  | -00°03'14" | 8.991  |
| 02/06/2013 00:00:00 | ♁  | 11°41'58" ♃ | 03°59'51"   | -00°40'57" | 00°02'04"  | 20.537 |
| 02/06/2013 00:00:00 | ♂  | 05°21'59" ♋ | -10°08'52"  | -00°39'03" | 00°00'10"  | 29.858 |
| 02/06/2013 00:00:00 | ♁  | 11°00'21" ♄ | -19°43'28"  | 03°15'57"  | -00°01'15" | 31.561 |
| 02/06/2013 00:00:00 | ♁  | 16°39'46" ♌ | -16°48'51"  | 00°00'00"  | 00°01'04"  | 0.002  |
| 02/06/2013 00:00:00 | ♁  | 13°44'13" ♋ | -01°32'46"  | 05°14'54"  | 00°00'48"  | 17.535 |
| 02/06/2013 00:00:00 | ♁  | 29°10'25" ♌ | 19°52'41"   | -03°33'18" | 00°06'40"  | 0.003  |
| 02/06/2013 00:00:00 | T♁ | 16°39'46" ♌ | -16°48'51"  | 00°00'00"  | 00°01'04"  | 0.002  |
| 02/06/2013 00:00:00 | T♁ | 08°30'19" ♌ | 19°47'02"   | -01°57'33" | 01°23'51"  | 0.003  |
| 02/06/2013 00:00:00 | X  | 22°46'04" ♃ | -03°10'24"  | -12°56'03" | 00°00'27"  | 97.118 |
| 02/06/2013 00:00:00 | Y  | 23°43'59" ♄ | 07°15'35"   | -11°47'37" | 00°00'44"  | 87.504 |

Ephemerides year 2013

|                     |   |             |             |            |            |        |
|---------------------|---|-------------|-------------|------------|------------|--------|
| 03/06/2013 00:00:00 | ☉ | 12°35'23" ♀ | 22°18'09"   | 00°00'00"  | 00°57'28"  | 1.014  |
| 03/06/2013 00:00:00 | ☾ | 09°17'36" ♂ | 06°37'06"   | 03°11'39"  | 12°40'30"  | 0.003  |
| 03/06/2013 00:00:00 | ♁ | 04°11'38" ♀ | 25°30'09" ♀ | 02°08'04"  | 01°29'02"  | 1.005  |
| 03/06/2013 00:00:00 | ♂ | 29°53'14" ♀ | 24°21'41" ♀ | 00°55'33"  | 01°13'21"  | 1.620  |
| 03/06/2013 00:00:00 | ♂ | 01°49'26" ♀ | 20°36'53"   | 00°05'36"  | 00°42'44"  | 2.466  |
| 03/06/2013 00:00:00 | ♃ | 24°42'57" ♀ | 23°04'29"   | -00°15'19" | 00°13'38"  | 6.102  |
| 03/06/2013 00:00:00 | ♄ | 05°47'23" ♃ | -10°58'46"  | 02°37'00"  | -00°03'09" | 9.001  |
| 03/06/2013 00:00:00 | ♅ | 11°44'02" ♂ | 04°00'38"   | -00°40'58" | 00°02'02"  | 20.523 |
| 03/06/2013 00:00:00 | ♆ | 05°22'08" ♂ | -10°08'50"  | -00°39'05" | 00°00'08"  | 29.841 |
| 03/06/2013 00:00:00 | ♇ | 10°59'04" ♂ | -19°43'37"  | 03°15'54"  | -00°01'16" | 31.553 |
| 03/06/2013 00:00:00 | ♈ | 16°41'08" ♃ | -16°49'15"  | 00°00'00"  | 00°01'34"  | 0.002  |
| 03/06/2013 00:00:00 | ♉ | 13°45'00" ♂ | -01°32'15"  | 05°15'08"  | 00°00'45"  | 17.519 |
| 03/06/2013 00:00:00 | ♊ | 29°17'06" ♀ | 19°52'04"   | -03°33'56" | 00°06'40"  | 0.003  |
| 03/06/2013 00:00:00 | ♋ | 16°41'08" ♃ | -16°49'15"  | 00°00'00"  | 00°01'34"  | 0.002  |
| 03/06/2013 00:00:00 | ♌ | 10°26'08" ♀ | 19°54'40"   | -02°07'11" | 02°25'16"  | 0.003  |
| 03/06/2013 00:00:00 | ♍ | 22°46'31" ♂ | -03°10'18"  | -12°56'07" | 00°00'26"  | 97.106 |
| 03/06/2013 00:00:00 | ♎ | 23°44'44" ♂ | 07°15'43"   | -11°47'40" | 00°00'44"  | 87.498 |
| 04/06/2013 00:00:00 | ☉ | 13°32'52" ♀ | 22°25'21"   | 00°00'00"  | 00°57'28"  | 1.014  |
| 04/06/2013 00:00:00 | ☾ | 21°49'54" ♂ | 10°33'25"   | 02°12'45"  | 12°24'39"  | 0.003  |

Ephemerides year 2013

|                     |    |             |             |            |            |        |
|---------------------|----|-------------|-------------|------------|------------|--------|
| 04/06/2013 00:00:00 | ♀  | 05°39'11" ♃ | 25°24'08" ♁ | 02°05'21"  | 01°26'01"  | 0.985  |
| 04/06/2013 00:00:00 | ♀  | 01°06'35" ♃ | 24°23'31" ♁ | 00°57'39"  | 01°13'20"  | 1.617  |
| 04/06/2013 00:00:00 | ♂  | 02°32'09" ♃ | 20°45'59"   | 00°06'14"  | 00°42'41"  | 2.466  |
| 04/06/2013 00:00:00 | ♃  | 24°56'37" ♃ | 23°05'07"   | -00°15'13" | 00°13'39"  | 6.106  |
| 04/06/2013 00:00:00 | ♃  | 05°44'16" ♃ | -10°57'56"  | 02°36'48"  | -00°03'05" | 9.011  |
| 04/06/2013 00:00:00 | ♃  | 11°46'03" ♃ | 04°01'24"   | -00°41'00" | 00°02'00"  | 20.508 |
| 04/06/2013 00:00:00 | ♃  | 05°22'16" ♃ | -10°08'49"  | -00°39'07" | 00°00'06"  | 29.825 |
| 04/06/2013 00:00:00 | ♃  | 10°57'47" ♃ | -19°43'47"  | 03°15'50"  | -00°01'17" | 31.546 |
| 04/06/2013 00:00:00 | ♃  | 16°42'46" ♃ | -16°49'42"  | 00°00'00"  | 00°01'35"  | 0.002  |
| 04/06/2013 00:00:00 | ♃  | 13°45'44" ♃ | -01°31'44"  | 05°15'23"  | 00°00'41"  | 17.503 |
| 04/06/2013 00:00:00 | ♃  | 29°23'47" ♃ | 19°51'28"   | -03°34'34" | 00°06'40"  | 0.003  |
| 04/06/2013 00:00:00 | T♃ | 16°42'46" ♃ | -16°49'42"  | 00°00'00"  | 00°01'35"  | 0.002  |
| 04/06/2013 00:00:00 | T♃ | 13°15'00" ♃ | 20°03'15"   | -02°20'57" | 03°09'13"  | 0.003  |
| 04/06/2013 00:00:00 | X  | 22°46'57" ♃ | -03°10'13"  | -12°56'11" | 00°00'26"  | 97.093 |
| 04/06/2013 00:00:00 | Y  | 23°45'29" ♃ | 07°15'51"   | -11°47'42" | 00°00'44"  | 87.492 |
| 05/06/2013 00:00:00 | ♁  | 14°30'20" ♃ | 22°32'09"   | 00°00'00"  | 00°57'27"  | 1.015  |
| 05/06/2013 00:00:00 | ♁  | 04°08'03" ♃ | 13°58'27"   | 01°08'46"  | 12°12'11"  | 0.003  |
| 05/06/2013 00:00:00 | ♀  | 07°03'41" ♃ | 25°16'31" ♁ | 02°01'51"  | 01°22'58"  | 0.966  |
| 05/06/2013 00:00:00 | ♀  | 02°19'55" ♃ | 24°24'37" ♁ | 00°59'44"  | 01°13'19"  | 1.614  |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 05/06/2013 00:00:00 | ♂ | 03°14'49" ♀ | 20°54'53"  | 00°06'53"  | 00°42'38"  | 2.467  |
| 05/06/2013 00:00:00 | ♃ | 25°10'17" ♀ | 23°05'44"  | -00°15'07" | 00°13'40"  | 6.109  |
| 05/06/2013 00:00:00 | ♅ | 05°41'13" ♃ | -10°57'07" | 02°36'36"  | -00°03'00" | 9.021  |
| 05/06/2013 00:00:00 | ♁ | 11°48'02" ♀ | 04°02'09"  | -00°41'01" | 00°01'57"  | 20.493 |
| 05/06/2013 00:00:00 | ♆ | 05°22'21" ♃ | -10°08'49" | -00°39'09" | 00°00'04"  | 29.808 |
| 05/06/2013 00:00:00 | ♁ | 10°56'29" ♃ | -19°43'56" | 03°15'47"  | -00°01'18" | 31.539 |
| 05/06/2013 00:00:00 | ♁ | 16°44'08" ♃ | -16°50'06" | 00°00'00"  | 00°01'04"  | 0.002  |
| 05/06/2013 00:00:00 | ♃ | 13°46'24" ♃ | -01°31'15" | 05°15'38"  | 00°00'38"  | 17.487 |
| 05/06/2013 00:00:00 | ♁ | 29°30'28" ♀ | 19°50'52"  | -03°35'12" | 00°06'40"  | 0.003  |
| 05/06/2013 00:00:00 | ♁ | 16°44'08" ♃ | -16°50'06" | 00°00'00"  | 00°01'04"  | 0.002  |
| 05/06/2013 00:00:00 | ♁ | 16°37'54" ♀ | 20°09'34"  | -02°37'03" | 03°33'12"  | 0.003  |
| 05/06/2013 00:00:00 | X | 22°47'23" ♀ | -03°10'07" | -12°56'16" | 00°00'25"  | 97.080 |
| 05/06/2013 00:00:00 | Y | 23°46'13" ♃ | 07°15'59"  | -11°47'45" | 00°00'44"  | 87.486 |
| 06/06/2013 00:00:00 | ♁ | 15°27'47" ♀ | 22°38'34"  | 00°00'00"  | 00°57'26"  | 1.015  |
| 06/06/2013 00:00:00 | ♁ | 16°15'20" ♃ | 16°44'26"  | 00°02'41"  | 12°02'50"  | 0.003  |
| 06/06/2013 00:00:00 | ♁ | 08°25'07" ♃ | 25°07'25"  | 01°57'34"  | 01°19'52"  | 0.946  |
| 06/06/2013 00:00:00 | ♀ | 03°33'14" ♃ | 24°25'01"  | 01°01'46"  | 01°13'18"  | 1.610  |
| 06/06/2013 00:00:00 | ♂ | 03°57'26" ♀ | 21°03'35"  | 00°07'31"  | 00°42'35"  | 2.466  |
| 06/06/2013 00:00:00 | ♃ | 25°23'58" ♀ | 23°06'19"  | -00°15'01" | 00°13'41"  | 6.113  |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 06/06/2013 00:00:00 | ♃ | 05°38'14" ♎ | -10°56'20" | 02°36'24"  | -00°02'56" | 9.032  |
| 06/06/2013 00:00:00 | ♃ | 11°49'59" ♎ | 04°02'53"  | -00°41'03" | 00°01'55"  | 20.478 |
| 06/06/2013 00:00:00 | ♃ | 05°22'25" ♎ | -10°08'50" | -00°39'11" | 00°00'02"  | 29.791 |
| 06/06/2013 00:00:00 | ♃ | 10°55'10" ♎ | -19°44'06" | 03°15'44"  | -00°01'19" | 31.532 |
| 06/06/2013 00:00:00 | ♃ | 16°44'44" ♎ | -16°50'16" | 00°00'00"  | 00°00'03"  | 0.002  |
| 06/06/2013 00:00:00 | ♃ | 13°47'00" ♎ | -01°30'47" | 05°15'53"  | 00°00'35"  | 17.471 |
| 06/06/2013 00:00:00 | ♃ | 29°37'09" ♎ | 19°50'15"  | -03°35'51" | 00°06'41"  | 0.003  |
| 06/06/2013 00:00:00 | ♃ | 16°44'44" ♎ | -16°50'16" | 00°00'00"  | 00°00'03"  | 0.002  |
| 06/06/2013 00:00:00 | ♃ | 20°15'00" ♎ | 20°11'27"  | -02°53'38" | 03°38'02"  | 0.003  |
| 06/06/2013 00:00:00 | X | 22°47'49" ♎ | -03°10'02" | -12°56'20" | 00°00'25"  | 97.067 |
| 06/06/2013 00:00:00 | Y | 23°46'57" ♎ | 07°16'06"  | -11°47'48" | 00°00'44"  | 87.479 |
| 07/06/2013 00:00:00 | ♃ | 16°25'14" ♎ | 22°44'35"  | -00°00'00" | 00°57'26"  | 1.015  |
| 07/06/2013 00:00:00 | ♃ | 28°14'39" ♎ | 18°44'49"  | -01°02'41" | 11°56'13"  | 0.003  |
| 07/06/2013 00:00:00 | ♃ | 09°43'25" ♎ | 24°56'58"  | 01°52'31"  | 01°16'44"  | 0.927  |
| 07/06/2013 00:00:00 | ♃ | 04°46'32" ♎ | 24°24'42"  | 01°03'46"  | 01°13'17"  | 1.606  |
| 07/06/2013 00:00:00 | ♃ | 04°40'00" ♎ | 21°12'05"  | 00°08'10"  | 00°42'32"  | 2.466  |
| 07/06/2013 00:00:00 | ♃ | 25°37'40" ♎ | 23°06'53"  | -00°14'55" | 00°13'42"  | 6.116  |
| 07/06/2013 00:00:00 | ♃ | 05°35'20" ♎ | -10°55'34" | 02°36'11"  | -00°02'51" | 9.042  |
| 07/06/2013 00:00:00 | ♃ | 11°51'53" ♎ | 04°03'36"  | -00°41'04" | 00°01'52"  | 20.463 |

Ephemerides year 2013

|                     |   |             |             |            |            |        |
|---------------------|---|-------------|-------------|------------|------------|--------|
| 07/06/2013 00:00:00 | ♁ | 05°22'27" ♈ | -10°08'51"  | -00°39'13" | 00°00'00"  | 29.775 |
| 07/06/2013 00:00:00 | ♁ | 10°53'50" ♈ | -19°44'15"  | 03°15'41"  | -00°01'20" | 31.525 |
| 07/06/2013 00:00:00 | ♁ | 16°44'07" ♈ | -16°50'06"  | 00°00'00"  | -00°01'19" | 0.002  |
| 07/06/2013 00:00:00 | ♁ | 13°47'34" ♈ | -01°30'21"  | 05°16'08"  | 00°00'31"  | 17.456 |
| 07/06/2013 00:00:00 | ♁ | 29°43'50" ♈ | 19°49'38"   | -03°36'28" | 00°06'41"  | 0.003  |
| 07/06/2013 00:00:00 | ♁ | 16°44'07" ♈ | -16°50'06"  | 00°00'00"  | -00°01'19" | 0.002  |
| 07/06/2013 00:00:00 | ♁ | 23°48'56" ♈ | 20°08'23"   | -03°09'17" | 03°27'52"  | 0.003  |
| 07/06/2013 00:00:00 | X | 22°48'14" ♈ | -03°09'58"  | -12°56'25" | 00°00'24"  | 97.054 |
| 07/06/2013 00:00:00 | Y | 23°47'41" ♈ | 07°16'13"   | -11°47'51" | 00°00'43"  | 87.472 |
| 08/06/2013 00:00:00 | ♁ | 17°22'39" ♈ | 22°50'11"   | -00°00'00" | 00°57'25"  | 1.015  |
| 08/06/2013 00:00:00 | ♁ | 10°08'34" ♈ | 19°54'35"   | -02°04'43" | 11°51'57"  | 0.003  |
| 08/06/2013 00:00:00 | ♁ | 10°58'35" ♈ | 24°45'15" ♁ | 01°46'42"  | 01°13'33"  | 0.908  |
| 08/06/2013 00:00:00 | ♁ | 05°59'49" ♈ | 24°23'39" ♁ | 01°05'44"  | 01°13'16"  | 1.603  |
| 08/06/2013 00:00:00 | ♁ | 05°22'31" ♈ | 21°20'23"   | 00°08'48"  | 00°42'29"  | 2.466  |
| 08/06/2013 00:00:00 | ♁ | 25°51'23" ♈ | 23°07'25"   | -00°14'49" | 00°13'43"  | 6.118  |
| 08/06/2013 00:00:00 | ♁ | 05°32'31" ♈ | -10°54'50"  | 02°35'59"  | -00°02'46" | 9.053  |
| 08/06/2013 00:00:00 | ♁ | 11°53'45" ♈ | 04°04'18"   | -00°41'06" | 00°01'50"  | 20.448 |
| 08/06/2013 00:00:00 | ♁ | 05°22'26" ♈ | -10°08'53"  | -00°39'15" | -00°00'01" | 29.758 |
| 08/06/2013 00:00:00 | ♁ | 10°52'29" ♈ | -19°44'25"  | 03°15'37"  | -00°01'21" | 31.519 |



Ephemerides year 2013

|                     |   |             |             |            |            |        |
|---------------------|---|-------------|-------------|------------|------------|--------|
| 08/06/2013 00:00:00 | ♏ | 16°42'03" ♎ | -16°49'30"  | 00°00'00"  | -00°02'50" | 0.002  |
| 08/06/2013 00:00:00 | ♋ | 13°48'04" ♋ | -01°29'55"  | 05°16'23"  | 00°00'28"  | 17.440 |
| 08/06/2013 00:00:00 | ♌ | 29°50'31" ♌ | 19°49'00"   | -03°37'06" | 00°06'41"  | 0.003  |
| 08/06/2013 00:00:00 | ♏ | 16°42'03" ♎ | -16°49'30"  | 00°00'00"  | -00°02'50" | 0.002  |
| 08/06/2013 00:00:00 | ♌ | 27°08'09" ♌ | 20°01'07"   | -03°23'11" | 03°09'58"  | 0.003  |
| 08/06/2013 00:00:00 | X | 22°48'38" ♄ | -03°09'53"  | -12°56'29" | 00°00'24"  | 97.040 |
| 08/06/2013 00:00:00 | Y | 23°48'25" ♃ | 07°16'20"   | -11°47'54" | 00°00'43"  | 87.465 |
| 09/06/2013 00:00:00 | ♏ | 18°20'04" ♌ | 22°55'24"   | -00°00'00" | 00°57'24"  | 1.015  |
| 09/06/2013 00:00:00 | ♎ | 21°59'15" ♌ | 20°10'58"   | -03°00'57" | 11°49'45"  | 0.003  |
| 09/06/2013 00:00:00 | ♌ | 12°10'32" ♃ | 24°32'24" ♁ | 01°40'08"  | 01°10'19"  | 0.889  |
| 09/06/2013 00:00:00 | ♌ | 07°13'05" ♃ | 24°21'53" ♁ | 01°07'40"  | 01°13'15"  | 1.599  |
| 09/06/2013 00:00:00 | ♌ | 06°04'58" ♌ | 21°28'28"   | 00°09'27"  | 00°42'25"  | 2.466  |
| 09/06/2013 00:00:00 | ♌ | 26°05'07" ♌ | 23°07'56"   | -00°14'42" | 00°13'43"  | 6.121  |
| 09/06/2013 00:00:00 | ♌ | 05°29'46" ♎ | -10°54'08"  | 02°35'46"  | -00°02'42" | 9.065  |
| 09/06/2013 00:00:00 | ♌ | 11°55'34" ♄ | 04°04'59"   | -00°41'08" | 00°01'48"  | 20.433 |
| 09/06/2013 00:00:00 | ♌ | 05°22'24" ♋ | -10°08'55"  | -00°39'17" | -00°00'03" | 29.742 |
| 09/06/2013 00:00:00 | ♌ | 10°51'08" ♃ | -19°44'35"  | 03°15'33"  | -00°01'21" | 31.513 |
| 09/06/2013 00:00:00 | ♏ | 16°38'27" ♎ | -16°48'29"  | 00°00'00"  | -00°04'18" | 0.002  |
| 09/06/2013 00:00:00 | ♋ | 13°48'31" ♋ | -01°29'31"  | 05°16'39"  | 00°00'25"  | 17.424 |

Ephemerides year 2013

|                     |   |             |            |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|------------|--------|
| 09/06/2013 00:00:00 | ☾ | 29°57'12" ♀ | 19°48'23"  | -03°37'44" | 00°06'41"  | 0.003      |        |
| 09/06/2013 00:00:00 | ♄ | 16°38'27" ♀ | -16°48'29" |            | 00°00'00"  | -00°04'18" | 0.002  |
| 09/06/2013 00:00:00 | ♄ | 00°09'06" ♀ | 19°50'51"  | -03°35'16" | 02°52'36"  |            | 0.003  |
| 09/06/2013 00:00:00 | X | 22°49'02" ♀ | -03°09'49" | -12°56'34" | 00°00'23"  |            | 97.026 |
| 09/06/2013 00:00:00 | Y | 23°49'08" ♀ | 07°16'27"  | -11°47'57" | 00°00'43"  |            | 87.457 |
| 10/06/2013 00:00:00 | ☉ | 19°17'28" ♀ | 23°00'12"  | -00°00'00" | 00°57'23"  |            | 1.015  |
| 10/06/2013 00:00:00 | ☾ | 03°48'44" ♀ | 19°33'44"  | -03°49'11" | 11°49'31"  |            | 0.003  |
| 10/06/2013 00:00:00 | ♁ | 13°19'13" ♀ | 24°18'30"  | 01°32'50"  | 01°07'01"  |            | 0.870  |
| 10/06/2013 00:00:00 | ♂ | 08°26'20" ♀ | 24°19'25"  | 01°09'32"  | 01°13'14"  |            | 1.595  |
| 10/06/2013 00:00:00 | ♂ | 06°47'23" ♀ | 21°36'21"  | 00°10'05"  | 00°42'22"  |            | 2.466  |
| 10/06/2013 00:00:00 | ♂ | 26°18'51" ♀ | 23°08'26"  | -00°14'36" | 00°13'44"  |            | 6.124  |
| 10/06/2013 00:00:00 | ♃ | 05°27'07" ♀ | -10°53'28" | 02°35'33"  | -00°02'37" |            | 9.076  |
| 10/06/2013 00:00:00 | ♃ | 11°57'21" ♀ | 04°05'39"  | -00°41'09" | 00°01'45"  |            | 20.417 |
| 10/06/2013 00:00:00 | ♃ | 05°22'20" ♀ | -10°08'59" | -00°39'19" | -00°00'05" |            | 29.725 |
| 10/06/2013 00:00:00 | ♂ | 10°49'46" ♀ | -19°44'46" | 03°15'30"  | -00°01'22" |            | 31.507 |
| 10/06/2013 00:00:00 | ♄ | 16°33'32" ♀ | -16°47'04" | 00°00'00"  | -00°05'27" |            | 0.002  |
| 10/06/2013 00:00:00 | ♃ | 13°48'54" ♀ | -01°29'08" | 05°16'54"  | 00°00'21"  |            | 17.408 |
| 10/06/2013 00:00:00 | ☾ | 00°03'53" ♀ | 19°47'45"  | -03°38'22" | 00°06'41"  |            | 0.003  |
| 10/06/2013 00:00:00 | ♄ | 16°33'32" ♀ | -16°47'04" |            | 00°00'00"  | -00°05'27" | 0.002  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 10/06/2013 00:00:00 | T♄ | 02°55'19" ♉ | 19°38'21"  | -03°45'53" | 02°40'53"  | 0.003  |
| 10/06/2013 00:00:00 | X  | 22°49'26" ♀ | -03°09'45" | -12°56'39" | 00°00'23"  | 97.013 |
| 10/06/2013 00:00:00 | Y  | 23°49'52" ♄ | 07°16'34"  | -11°48'00" | 00°00'43"  | 87.450 |
| 11/06/2013 00:00:00 | ☉  | 20°14'51" ♋ | 23°04'37"  | -00°00'00" | 00°57'22"  | 1.015  |
| 11/06/2013 00:00:00 | ☾  | 15°38'57" ♉ | 18°05'16"  | -04°27'33" | 11°51'16"  | 0.003  |
| 11/06/2013 00:00:00 | ♀  | 14°24'34" ♉ | 24°03'41"  | 01°24'47"  | 01°03'40"  | 0.852  |
| 11/06/2013 00:00:00 | ♀  | 09°39'34" ♉ | 24°16'13"  | 01°11'22"  | 01°13'13"  | 1.591  |
| 11/06/2013 00:00:00 | ♂  | 07°29'44" ♋ | 21°44'01"  | 00°10'43"  | 00°42'19"  | 2.466  |
| 11/06/2013 00:00:00 | ♃  | 26°32'36" ♋ | 23°08'54"  | -00°14'31" | 00°13'45"  | 6.126  |
| 11/06/2013 00:00:00 | ♅  | 05°24'32" ♎ | -10°52'49" | 02°35'20"  | -00°02'32" | 9.088  |
| 11/06/2013 00:00:00 | ♁  | 11°59'05" ♀ | 04°06'18"  | -00°41'11" | 00°01'42"  | 20.402 |
| 11/06/2013 00:00:00 | ♆  | 05°22'14" ♎ | -10°09'03" | -00°39'21" | -00°00'07" | 29.709 |
| 11/06/2013 00:00:00 | ♁  | 10°48'23" ♎ | -19°44'56" | 03°15'26"  | -00°01'23" | 31.501 |
| 11/06/2013 00:00:00 | ♁  | 16°27'43" ♎ | -16°45'24" | 00°00'00"  | -00°06'06" | 0.002  |
| 11/06/2013 00:00:00 | ♃  | 13°49'14" ♎ | -01°28'47" | 05°17'09"  | 00°00'18"  | 17.393 |
| 11/06/2013 00:00:00 | ♁  | 00°10'35" ♉ | 19°47'07"  | -03°38'59" | 00°06'41"  | 0.003  |
| 11/06/2013 00:00:00 | T♁ | 16°27'43" ♎ | -16°45'24" | 00°00'00"  | -00°06'06" | 0.002  |
| 11/06/2013 00:00:00 | T♄ | 05°32'37" ♉ | 19°23'50"  | -03°55'31" | 02°34'13"  | 0.003  |
| 11/06/2013 00:00:00 | X  | 22°49'49" ♀ | -03°09'41" | -12°56'43" | 00°00'22"  | 96.999 |

Ephemerides year 2013

|                     |    |             |             |            |            |        |
|---------------------|----|-------------|-------------|------------|------------|--------|
| 11/06/2013 00:00:00 | Y  | 23°50'34" ♄ | 07°16'41"   | -11°48'04" | 00°00'42"  | 87.442 |
| 12/06/2013 00:00:00 | ☉  | 21°12'14" ♀ | 23°08'37"   | -00°00'00" | 00°57'21"  | 1.015  |
| 12/06/2013 00:00:00 | ☾  | 27°32'01" ♃ | 15°50'07"   | -04°54'30" | 11°55'14"  | 0.003  |
| 12/06/2013 00:00:00 | ♀  | 15°26'32" ♃ | 23°48'02" ○ | 01°16'02"  | 01°00'13"  | 0.834  |
| 12/06/2013 00:00:00 | ♀  | 10°52'46" ♃ | 24°12'19" ○ | 01°13'10"  | 01°13'11"  | 1.587  |
| 12/06/2013 00:00:00 | ♂  | 08°12'02" ♀ | 21°51'29"   | 00°11'22"  | 00°42'16"  | 2.466  |
| 12/06/2013 00:00:00 | ♃  | 26°46'21" ♀ | 23°09'21"   | -00°14'25" | 00°13'45"  | 6.128  |
| 12/06/2013 00:00:00 | ♃  | 05°22'02" ♃ | -10°52'12"  | 02°35'07"  | -00°02'27" | 9.099  |
| 12/06/2013 00:00:00 | ♃  | 12°00'47" ♃ | 04°06'56"   | -00°41'13" | 00°01'40"  | 20.386 |
| 12/06/2013 00:00:00 | ♃  | 05°22'06" ♃ | -10°09'07"  | -00°39'23" | -00°00'09" | 29.692 |
| 12/06/2013 00:00:00 | ♃  | 10°46'59" ♃ | -19°45'06"  | 03°15'22"  | -00°01'24" | 31.496 |
| 12/06/2013 00:00:00 | ♃  | 16°21'33" ♃ | -16°43'39"  | 00°00'00"  | -00°06'07" | 0.002  |
| 12/06/2013 00:00:00 | ♃  | 13°49'31" ♃ | -01°28'27"  | 05°17'24"  | 00°00'14"  | 17.377 |
| 12/06/2013 00:00:00 | ♃  | 00°17'16" ♃ | 19°46'29"   | -03°39'37" | 00°06'41"  | 0.003  |
| 12/06/2013 00:00:00 | T♃ | 16°21'33" ♃ | -16°43'39"  | 00°00'00"  | -00°06'07" | 0.002  |
| 12/06/2013 00:00:00 | T♃ | 08°03'47" ♃ | 19°07'28"   | -04°04'22" | 02°27'33"  | 0.003  |
| 12/06/2013 00:00:00 | X  | 22°50'11" ♃ | -03°09'37"  | -12°56'48" | 00°00'22"  | 96.985 |
| 12/06/2013 00:00:00 | Y  | 23°51'17" ♄ | 07°16'47"   | -11°48'07" | 00°00'42"  | 87.434 |
| 13/06/2013 00:00:00 | ☉  | 22°09'35" ♀ | 23°12'12"   | -00°00'00" | 00°57'20"  | 1.016  |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 13/06/2013 00:00:00 | ♃ | 09°30'18" ♏ | 12°54'16"  | -05°08'47" | 12°01'46"  | 0.003  |
| 13/06/2013 00:00:00 | ♆ | 16°25'00" ♉ | 23°31'40"  | 01°06'34"  | 00°56'42"  | 0.816  |
| 13/06/2013 00:00:00 | ♀ | 12°05'58" ♉ | 24°07'42"  | 01°14'54"  | 01°13'10"  | 1.584  |
| 13/06/2013 00:00:00 | ♂ | 08°54'16" ♋ | 21°58'44"  | 00°12'00"  | 00°42'12"  | 2.465  |
| 13/06/2013 00:00:00 | ♃ | 27°00'07" ♋ | 23°09'46"  | -00°14'19" | 00°13'45"  | 6.130  |
| 13/06/2013 00:00:00 | ♄ | 05°19'38" ♎ | -10°51'38" | 02°34'53"  | -00°02'22" | 9.111  |
| 13/06/2013 00:00:00 | ♃ | 12°02'26" ♋ | 04°07'34"  | -00°41'14" | 00°01'37"  | 20.370 |
| 13/06/2013 00:00:00 | ♆ | 05°21'56" ♎ | -10°09'13" | -00°39'25" | -00°00'11" | 29.676 |
| 13/06/2013 00:00:00 | ♃ | 10°45'35" ♎ | -19°45'17" | 03°15'18"  | -00°01'24" | 31.491 |
| 13/06/2013 00:00:00 | ♏ | 16°15'41" ♎ | -16°41'58" | 00°00'00"  | -00°05'29" | 0.002  |
| 13/06/2013 00:00:00 | ♃ | 13°49'44" ♎ | -01°28'08" | 05°17'39"  | 00°00'11"  | 17.362 |
| 13/06/2013 00:00:00 | ♆ | 00°23'57" ♉ | 19°45'51"  | -03°40'14" | 00°06'41"  | 0.003  |
| 13/06/2013 00:00:00 | ♏ | 16°15'41" ♎ | -16°41'58" | 00°00'00"  | -00°05'29" | 0.002  |
| 13/06/2013 00:00:00 | ♃ | 10°25'37" ♉ | 18°49'59"  | -04°12'18" | 02°14'36"  | 0.003  |
| 13/06/2013 00:00:00 | X | 22°50'33" ♋ | -03°09'34" | -12°56'53" | 00°00'21"  | 96.970 |
| 13/06/2013 00:00:00 | Y | 23°51'59" ♉ | 07°16'53"  | -11°48'11" | 00°00'42"  | 87.425 |
| 14/06/2013 00:00:00 | ♃ | 23°06'56" ♋ | 23°15'23"  | -00°00'00" | 00°57'20"  | 1.016  |
| 14/06/2013 00:00:00 | ♃ | 21°36'35" ♏ | 09°24'33"  | -05°09'32" | 12°11'19"  | 0.003  |
| 14/06/2013 00:00:00 | ♆ | 17°19'56" ♉ | 23°14'41"  | 00°56'24"  | 00°53'06"  | 0.799  |

Ephemerides year 2013

|                     |    |             |             |            |            |        |
|---------------------|----|-------------|-------------|------------|------------|--------|
| 14/06/2013 00:00:00 | ♀  | 13°19'08" ♉ | 24°02'22" ♍ | 01°16'36"  | 01°13'09"  | 1.580  |
| 14/06/2013 00:00:00 | ♂  | 09°36'28" ♉ | 22°05'46"   | 00°12'38"  | 00°42'09"  | 2.465  |
| 14/06/2013 00:00:00 | ♃  | 27°13'53" ♉ | 23°10'10"   | -00°14'13" | 00°13'46"  | 6.131  |
| 14/06/2013 00:00:00 | ♅  | 05°17'18" ♎ | -10°51'04"  | 02°34'39"  | -00°02'16" | 9.124  |
| 14/06/2013 00:00:00 | ♁  | 12°04'02" ♏ | 04°08'10"   | -00°41'16" | 00°01'35"  | 20.354 |
| 14/06/2013 00:00:00 | ♆  | 05°21'44" ♎ | -10°09'19"  | -00°39'27" | -00°00'13" | 29.660 |
| 14/06/2013 00:00:00 | ♁  | 10°44'10" ♎ | -19°45'28"  | 03°15'14"  | -00°01'25" | 31.486 |
| 14/06/2013 00:00:00 | ♁  | 16°10'46" ♎ | -16°40'33"  | 00°00'00"  | -00°04'16" | 0.002  |
| 14/06/2013 00:00:00 | ♁  | 13°49'54" ♎ | -01°27'50"  | 05°17'54"  | 00°00'08"  | 17.346 |
| 14/06/2013 00:00:00 | ♁  | 00°30'38" ♉ | 19°45'13"   | -03°40'51" | 00°06'41"  | 0.003  |
| 14/06/2013 00:00:00 | T♁ | 16°10'46" ♎ | -16°40'33"  | 00°00'00"  | -00°04'16" | 0.002  |
| 14/06/2013 00:00:00 | T♁ | 12°29'13" ♉ | 18°33'08"   | -04°18'55" | 01°50'25"  | 0.003  |
| 14/06/2013 00:00:00 | X  | 22°50'54" ♏ | -03°09'31"  | -12°56'58" | 00°00'21"  | 96.956 |
| 14/06/2013 00:00:00 | Y  | 23°52'41" ♏ | 07°16'59"   | -11°48'15" | 00°00'41"  | 87.416 |
| 15/06/2013 00:00:00 | ♁  | 24°04'15" ♉ | 23°18'09"   | -00°00'00" | 00°57'19"  | 1.016  |
| 15/06/2013 00:00:00 | ♃  | 03°54'05" ♎ | 05°28'18"   | -04°56'12" | 12°24'17"  | 0.003  |
| 15/06/2013 00:00:00 | ♁  | 18°11'12" ♉ | 22°57'11"   | 00°45'34"  | 00°49'24"  | 0.782  |
| 15/06/2013 00:00:00 | ♀  | 14°32'17" ♉ | 23°56'21" ♍ | 01°18'15"  | 01°13'08"  | 1.576  |
| 15/06/2013 00:00:00 | ♂  | 10°18'36" ♉ | 22°12'36"   | 00°13'16"  | 00°42'06"  | 2.465  |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 15/06/2013 00:00:00 | ♃ | 27°27'39" ♀ | 23°10'33"  | -00°14'07" | 00°13'46"  | 6.133  |
| 15/06/2013 00:00:00 | ♅ | 05°15'04" ♃ | -10°50'33" | 02°34'26"  | -00°02'11" | 9.136  |
| 15/06/2013 00:00:00 | ♁ | 12°05'36" ♀ | 04°08'45"  | -00°41'18" | 00°01'32"  | 20.339 |
| 15/06/2013 00:00:00 | ♆ | 05°21'30" ♃ | -10°09'26" | -00°39'29" | -00°00'14" | 29.644 |
| 15/06/2013 00:00:00 | ♁ | 10°42'44" ♀ | -19°45'39" | 03°15'09"  | -00°01'25" | 31.482 |
| 15/06/2013 00:00:00 | ♁ | 16°07'15" ♃ | -16°39'32" | 00°00'00"  | -00°02'42" | 0.002  |
| 15/06/2013 00:00:00 | ♃ | 13°50'00" ♃ | -01°27'34" | 05°18'09"  | 00°00'04"  | 17.330 |
| 15/06/2013 00:00:00 | ♁ | 00°37'19" ♃ | 19°44'34"  | -03°41'28" | 00°06'41"  | 0.003  |
| 15/06/2013 00:00:00 | ♁ | 16°07'15" ♃ | -16°39'32" | 00°00'00"  | -00°02'42" | 0.002  |
| 15/06/2013 00:00:00 | ♁ | 14°01'51" ♃ | 18°19'31"  | -04°23'40" | 01°12'28"  | 0.003  |
| 15/06/2013 00:00:00 | X | 22°51'15" ♀ | -03°09'28" | -12°57'03" | 00°00'20"  | 96.941 |
| 15/06/2013 00:00:00 | Y | 23°53'23" ♂ | 07°17'05"  | -11°48'19" | 00°00'41"  | 87.407 |
| 16/06/2013 00:00:00 | ♁ | 25°01'34" ♀ | 23°20'31"  | -00°00'00" | 00°57'18"  | 1.016  |
| 16/06/2013 00:00:00 | ♃ | 16°26'24" ♃ | 01°13'23"  | -04°28'37" | 12°40'59"  | 0.003  |
| 16/06/2013 00:00:00 | ♁ | 18°58'43" ♃ | 22°39'16"  | 00°34'04"  | 00°45'37"  | 0.766  |
| 16/06/2013 00:00:00 | ♀ | 15°45'24" ♃ | 23°49'37"  | 01°19'50"  | 01°13'06"  | 1.571  |
| 16/06/2013 00:00:00 | ♂ | 11°00'40" ♀ | 22°19'13"  | 00°13'55"  | 00°42'03"  | 2.464  |
| 16/06/2013 00:00:00 | ♃ | 27°41'25" ♀ | 23°10'54"  | -00°14'01" | 00°13'46"  | 6.134  |
| 16/06/2013 00:00:00 | ♅ | 05°12'55" ♃ | -10°50'04" | 02°34'12"  | -00°02'06" | 9.149  |

Ephemerides year 2013

|                     |   |             |             |            |            |        |
|---------------------|---|-------------|-------------|------------|------------|--------|
| 16/06/2013 00:00:00 | ♃ | 12°07'07" ♀ | 04°09'19"   | -00°41'19" | 00°01'29"  | 20.323 |
| 16/06/2013 00:00:00 | ♃ | 05°21'14" ♀ | -10°09'34"  | -00°39'31" | -00°00'16" | 29.628 |
| 16/06/2013 00:00:00 | ♃ | 10°41'18" ♀ | -19°45'50"  | 03°15'05"  | -00°01'26" | 31.478 |
| 16/06/2013 00:00:00 | ♃ | 16°05'22" ♀ | -16°39'00"  | 00°00'00"  | -00°01'03" | 0.002  |
| 16/06/2013 00:00:00 | ♃ | 13°50'03" ♀ | -01°27'19"  | 05°18'24"  | 00°00'01"  | 17.315 |
| 16/06/2013 00:00:00 | ♃ | 00°44'00" ♀ | 19°43'55"   | -03°42'05" | 00°06'41"  | 0.003  |
| 16/06/2013 00:00:00 | ♃ | 16°05'22" ♀ | -16°39'00"  | 00°00'00"  | -00°01'03" | 0.002  |
| 16/06/2013 00:00:00 | ♃ | 14°49'45" ♀ | 18°12'07"   | -04°26'05" | 00°21'24"  | 0.003  |
| 16/06/2013 00:00:00 | X | 22°51'35" ♀ | -03°09'26"  | -12°57'08" | 00°00'19"  | 96.927 |
| 16/06/2013 00:00:00 | Y | 23°54'04" ♀ | 07°17'11"   | -11°48'23" | 00°00'41"  | 87.398 |
| 17/06/2013 00:00:00 | ♃ | 25°58'52" ♀ | 23°22'27"   | -00°00'00" | 00°57'17"  | 1.016  |
| 17/06/2013 00:00:00 | ♃ | 29°17'20" ♀ | -03°11'19"  | -03°47'02" | 13°01'28"  | 0.003  |
| 17/06/2013 00:00:00 | ♃ | 19°42'24" ♀ | 22°21'02"   | 00°21'57"  | 00°41'43"  | 0.750  |
| 17/06/2013 00:00:00 | ♃ | 16°58'30" ♀ | 23°42'12" ♀ | 01°21'23"  | 01°13'05"  | 1.567  |
| 17/06/2013 00:00:00 | ♃ | 11°42'42" ♀ | 22°25'38"   | 00°14'33"  | 00°41'59"  | 2.464  |
| 17/06/2013 00:00:00 | ♃ | 27°55'12" ♀ | 23°11'13"   | -00°13'55" | 00°13'46"  | 6.135  |
| 17/06/2013 00:00:00 | ♃ | 05°10'51" ♀ | -10°49'36"  | 02°33'58"  | -00°02'01" | 9.161  |
| 17/06/2013 00:00:00 | ♃ | 12°08'36" ♀ | 04°09'51"   | -00°41'21" | 00°01'27"  | 20.306 |
| 17/06/2013 00:00:00 | ♃ | 05°20'56" ♀ | -10°09'42"  | -00°39'32" | -00°00'18" | 29.612 |



Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 17/06/2013 00:00:00 | ♁ | 10°39'51" ♄ | -19°46'01" | 03°15'01"  | -00°01'27" | 31.474 |
| 17/06/2013 00:00:00 | ♁ | 16°05'03" ♃ | -16°38'54" | 00°00'00"  | 00°00'21"  | 0.002  |
| 17/06/2013 00:00:00 | ♃ | 13°50'03" ♃ | -01°27'05" | 05°18'39"  | -00°00'02" | 17.300 |
| 17/06/2013 00:00:00 | ♁ | 00°50'41" ♃ | 19°43'16"  | -03°42'42" | 00°06'41"  | 0.003  |
| 17/06/2013 00:00:00 | ♁ | 16°05'03" ♃ | -16°38'54" | 00°00'00"  | 00°00'21"  | 0.002  |
| 17/06/2013 00:00:00 | ♁ | 14°41'55" ♃ | 18°13'17"  | -04°25'45" | -00°37'44" | 0.003  |
| 17/06/2013 00:00:00 | X | 22°51'55" ♃ | -03°09'24" | -12°57'14" | 00°00'19"  | 96.912 |
| 17/06/2013 00:00:00 | Y | 23°54'45" ♃ | 07°17'16"  | -11°48'27" | 00°00'40"  | 87.389 |
| 18/06/2013 00:00:00 | ♁ | 26°56'08" ♃ | 23°23'59"  | -00°00'00" | 00°57'16"  | 1.016  |
| 18/06/2013 00:00:00 | ♁ | 12°30'29" ♃ | -07°35'10" | -02°52'22" | 13°25'20"  | 0.003  |
| 18/06/2013 00:00:00 | ♁ | 20°22'08" ♃ | 22°02'35"  | 00°09'12"  | 00°37'43"  | 0.734  |
| 18/06/2013 00:00:00 | ♁ | 18°11'35" ♃ | 23°34'06"  | 01°22'52"  | 01°13'03"  | 1.563  |
| 18/06/2013 00:00:00 | ♁ | 12°24'40" ♃ | 22°31'49"  | 00°15'11"  | 00°41'56"  | 2.463  |
| 18/06/2013 00:00:00 | ♁ | 28°08'58" ♃ | 23°11'31"  | -00°13'49" | 00°13'46"  | 6.136  |
| 18/06/2013 00:00:00 | ♁ | 05°08'53" ♃ | -10°49'10" | 02°33'43"  | -00°01'55" | 9.174  |
| 18/06/2013 00:00:00 | ♁ | 12°10'02" ♃ | 04°10'23"  | -00°41'23" | 00°01'24"  | 20.290 |
| 18/06/2013 00:00:00 | ♁ | 05°20'36" ♃ | -10°09'51" | -00°39'34" | -00°00'20" | 29.596 |
| 18/06/2013 00:00:00 | ♁ | 10°38'24" ♄ | -19°46'13" | 03°14'56"  | -00°01'27" | 31.470 |
| 18/06/2013 00:00:00 | ♁ | 16°05'53" ♃ | -16°39'09" | 00°00'00"  | 00°01'12"  | 0.002  |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 18/06/2013 00:00:00 | ♄ | 13°49'59" ♉ | -01°26'53" | 05°18'54"  | -00°00'05" | 17.284 |
| 18/06/2013 00:00:00 | ♁ | 00°57'22" ♉ | 19°42'36"  | -03°43'19" | 00°06'41"  | 0.003  |
| 18/06/2013 00:00:00 | ♄ | 16°05'53" ♉ | -16°39'09" | 00°00'00"  | 00°01'12"  | 0.002  |
| 18/06/2013 00:00:00 | ♁ | 13°35'01" ♉ | 18°23'25"  | -04°22'26" | -01°34'33" | 0.003  |
| 18/06/2013 00:00:00 | X | 22°52'14" ♉ | -03°09'22" | -12°57'19" | 00°00'18"  | 96.897 |
| 18/06/2013 00:00:00 | Y | 23°55'25" ♉ | 07°17'21"  | -11°48'32" | 00°00'40"  | 87.379 |
| 19/06/2013 00:00:00 | ♁ | 27°53'25" ♉ | 23°25'07"  | -00°00'00" | 00°57'15"  | 1.016  |
| 19/06/2013 00:00:00 | ♃ | 26°08'49" ♉ | -11°44'45" | -01°46'24" | 13°51'36"  | 0.002  |
| 19/06/2013 00:00:00 | ♁ | 20°57'48" ♉ | 21°44'02"  | -00°04'05" | 00°33'36"  | 0.719  |
| 19/06/2013 00:00:00 | ♁ | 19°24'38" ♉ | 23°25'18"  | 01°24'18"  | 01°13'02"  | 1.559  |
| 19/06/2013 00:00:00 | ♁ | 13°06'35" ♉ | 22°37'48"  | 00°15'49"  | 00°41'53"  | 2.463  |
| 19/06/2013 00:00:00 | ♁ | 28°22'45" ♉ | 23°11'47"  | -00°13'44" | 00°13'46"  | 6.137  |
| 19/06/2013 00:00:00 | ♁ | 05°07'00" ♉ | -10°48'47" | 02°33'29"  | -00°01'50" | 9.187  |
| 19/06/2013 00:00:00 | ♁ | 12°11'25" ♉ | 04°10'54"  | -00°41'25" | 00°01'21"  | 20.274 |
| 19/06/2013 00:00:00 | ♁ | 05°20'15" ♉ | -10°10'01" | -00°39'36" | -00°00'22" | 29.581 |
| 19/06/2013 00:00:00 | ♁ | 10°36'56" ♉ | -19°46'24" | 03°14'51"  | -00°01'27" | 31.467 |
| 19/06/2013 00:00:00 | ♁ | 16°07'13" ♉ | -16°39'32" | 00°00'00"  | 00°01'17"  | 0.002  |
| 19/06/2013 00:00:00 | ♄ | 13°49'52" ♉ | -01°26'42" | 05°19'08"  | -00°00'08" | 17.269 |
| 19/06/2013 00:00:00 | ♁ | 01°04'03" ♉ | 19°41'57"  | -03°43'55" | 00°06'41"  | 0.003  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 19/06/2013 00:00:00 | T♄ | 16°07'13" ♍ | -16°39'32" | 00°00'00"  | 00°01'17"  | 0.002  |
| 19/06/2013 00:00:00 | T♄ | 11°38'13" ♉ | 18°40'08"  | -04°16'22" | -02°15'17" | 0.003  |
| 19/06/2013 00:00:00 | X  | 22°52'33" ♀ | -03°09'20" | -12°57'24" | 00°00'18"  | 96.882 |
| 19/06/2013 00:00:00 | Y  | 23°56'06" ♄ | 07°17'26"  | -11°48'36" | 00°00'39"  | 87.369 |
| 20/06/2013 00:00:00 | ♁  | 28°50'40" ♈ | 23°25'49"  | -00°00'00" | 00°57'15"  | 1.016  |
| 20/06/2013 00:00:00 | ♃  | 10°13'55" ♍ | -15°23'29" | -00°32'00" | 14°18'29"  | 0.002  |
| 20/06/2013 00:00:00 | ♀  | 21°29'19" ♉ | 21°25'28"  | -00°17'57" | 00°29'24"  | 0.705  |
| 20/06/2013 00:00:00 | ♀  | 20°37'40" ♉ | 23°15'50"  | 01°25'41"  | 01°13'01"  | 1.554  |
| 20/06/2013 00:00:00 | ♂  | 13°48'27" ♈ | 22°43'34"  | 00°16'27"  | 00°41'50"  | 2.462  |
| 20/06/2013 00:00:00 | ♃  | 28°36'29" ♈ | 23°12'02"  | -00°13'39" | 00°13'46"  | 6.137  |
| 20/06/2013 00:00:00 | ♃  | 05°05'12" ♍ | -10°48'25" | 02°33'14"  | -00°01'44" | 9.201  |
| 20/06/2013 00:00:00 | ♃  | 12°12'45" ♀ | 04°11'24"  | -00°41'26" | 00°01'19"  | 20.258 |
| 20/06/2013 00:00:00 | ♃  | 05°19'51" ♃ | -10°10'11" | -00°39'38" | -00°00'24" | 29.565 |
| 20/06/2013 00:00:00 | ♃  | 10°35'28" ♃ | -19°46'36" | 03°14'47"  | -00°01'28" | 31.464 |
| 20/06/2013 00:00:00 | ♁  | 16°08'12" ♍ | -16°39'49" | 00°00'00"  | 00°00'32"  | 0.002  |
| 20/06/2013 00:00:00 | ♃  | 13°49'42" ♃ | -01°26'32" | 05°19'23"  | -00°00'11" | 17.254 |
| 20/06/2013 00:00:00 | ♃  | 01°10'45" ♉ | 19°41'17"  | -03°44'32" | 00°06'41"  | 0.003  |
| 20/06/2013 00:00:00 | T♄ | 16°08'12" ♍ | -16°39'49" | 00°00'00"  | 00°00'32"  | 0.002  |
| 20/06/2013 00:00:00 | T♄ | 09°13'16" ♉ | 18°59'06"  | -04°08'22" | -02°29'58" | 0.003  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 20/06/2013 00:00:00 | X  | 22°52'51" ♀ | -03°09'19" | -12°57'30" | 00°00'17"  | 96.867 |
| 20/06/2013 00:00:00 | Y  | 23°56'45" ♂ | 07°17'31"  | -11°48'41" | 00°00'39"  | 87.359 |
| 21/06/2013 00:00:00 | ☉  | 29°47'55" ♀ | 23°26'07"  | 00°00'00"  | 00°57'14"  | 1.016  |
| 21/06/2013 00:00:00 | ☾  | 24°45'10" ♉ | -18°12'03" | 00°46'33"  | 14°43'27"  | 0.002  |
| 21/06/2013 00:00:00 | ♁  | 21°56'35" ♉ | 21°06'59"  | -00°32'18" | 00°25'06"  | 0.691  |
| 21/06/2013 00:00:00 | ♂  | 21°50'40" ♉ | 23°05'42"  | 01°27'00"  | 01°12'59"  | 1.550  |
| 21/06/2013 00:00:00 | ♂  | 14°30'16" ♀ | 22°49'07"  | 00°17'05"  | 00°41'47"  | 2.462  |
| 21/06/2013 00:00:00 | ♃  | 28°50'16" ♀ | 23°12'16"  | -00°13'32" | 00°13'46"  | 6.137  |
| 21/06/2013 00:00:00 | ♄  | 05°03'30" ♉ | -10°48'05" | 02°33'00"  | -00°01'39" | 9.214  |
| 21/06/2013 00:00:00 | ♅  | 12°14'03" ♀ | 04°11'53"  | -00°41'28" | 00°01'16"  | 20.241 |
| 21/06/2013 00:00:00 | ♆  | 05°19'26" ♃ | -10°10'22" | -00°39'40" | -00°00'26" | 29.550 |
| 21/06/2013 00:00:00 | ♇  | 10°34'00" ♃ | -19°46'47" | 03°14'42"  | -00°01'28" | 31.461 |
| 21/06/2013 00:00:00 | ♈  | 16°08'03" ♉ | -16°39'46" | 00°00'00"  | -00°00'57" | 0.002  |
| 21/06/2013 00:00:00 | ♉  | 13°49'28" ♃ | -01°26'24" | 05°19'38"  | -00°00'15" | 17.238 |
| 21/06/2013 00:00:00 | ♊  | 01°17'26" ♉ | 19°40'37"  | -03°45'08" | 00°06'41"  | 0.003  |
| 21/06/2013 00:00:00 | T♈ | 16°08'03" ♉ | -16°39'46" | 00°00'00"  | -00°00'57" | 0.002  |
| 21/06/2013 00:00:00 | T♉ | 06°46'30" ♉ | 19°16'13"  | -03°59'49" | -02°20'21" | 0.003  |
| 21/06/2013 00:00:00 | X  | 22°53'08" ♀ | -03°09'18" | -12°57'35" | 00°00'17"  | 96.852 |
| 21/06/2013 00:00:00 | Y  | 23°57'25" ♂ | 07°17'35"  | -11°48'45" | 00°00'39"  | 87.349 |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 22/06/2013 00:00:00 | ☉ | 00°45'09" ♉ | 23°26'00"  | 00°00'00"  | 00°57'13"  | 1.016  |
| 22/06/2013 00:00:00 | ☾ | 09°39'09" ♋ | -19°51'12" | 02°03'50"  | 15°03'24"  | 0.002  |
| 22/06/2013 00:00:00 | ♁ | 22°19'30" ♉ | 20°48'41"  | -00°47'07" | 00°20'42"  | 0.677  |
| 22/06/2013 00:00:00 | ♂ | 23°03'39" ♉ | 22°54'54"  | 01°28'15"  | 01°12'58"  | 1.546  |
| 22/06/2013 00:00:00 | ♂ | 15°12'01" ♉ | 22°54'27"  | 00°17'43"  | 00°41'44"  | 2.461  |
| 22/06/2013 00:00:00 | ♃ | 29°04'02" ♉ | 23°12'29"  | -00°13'27" | 00°13'45"  | 6.137  |
| 22/06/2013 00:00:00 | ♄ | 05°01'54" ♎ | -10°47'47" | 02°32'45"  | -00°01'33" | 9.228  |
| 22/06/2013 00:00:00 | ♅ | 12°15'18" ♋ | 04°12'20"  | -00°41'30" | 00°01'13"  | 20.225 |
| 22/06/2013 00:00:00 | ♆ | 05°18'59" ♎ | -10°10'33" | -00°39'42" | -00°00'27" | 29.535 |
| 22/06/2013 00:00:00 | ♇ | 10°32'31" ♌ | -19°46'59" | 03°14'37"  | -00°01'28" | 31.459 |
| 22/06/2013 00:00:00 | ♈ | 16°06'09" ♎ | -16°39'13" | 00°00'00"  | -00°02'52" | 0.002  |
| 22/06/2013 00:00:00 | ♉ | 13°49'11" ♎ | -01°26'16" | 05°19'53"  | -00°00'18" | 17.223 |
| 22/06/2013 00:00:00 | ♊ | 01°24'07" ♉ | 19°39'56"  | -03°45'45" | 00°06'41"  | 0.003  |
| 22/06/2013 00:00:00 | ♋ | 16°06'09" ♎ | -16°39'13" | 00°00'00"  | -00°02'52" | 0.002  |
| 22/06/2013 00:00:00 | ♌ | 04°36'13" ♉ | 19°29'34"  | -03°51'53" | -01°59'49" | 0.003  |
| 22/06/2013 00:00:00 | X | 22°53'26" ♋ | -03°09'17" | -12°57'41" | 00°00'16"  | 96.836 |
| 22/06/2013 00:00:00 | Y | 23°58'04" ♌ | 07°17'40"  | -11°48'50" | 00°00'38"  | 87.338 |
| 23/06/2013 00:00:00 | ☉ | 01°42'22" ♉ | 23°25'28"  | 00°00'00"  | 00°57'13"  | 1.016  |
| 23/06/2013 00:00:00 | ☾ | 24°49'16" ♋ | -20°06'32" | 03°13'39"  | 15°15'15"  | 0.002  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 23/06/2013 00:00:00 | ♀  | 22°37'58" ♉ | 20°30'40"  | -01°02'19" | 00°16'13"  | 0.665  |
| 23/06/2013 00:00:00 | ♀  | 24°16'37" ♉ | 22°43'27"  | 01°29'27"  | 01°12'56"  | 1.541  |
| 23/06/2013 00:00:00 | ♂  | 15°53'44" ♉ | 22°59'35"  | 00°18'21"  | 00°41'40"  | 2.460  |
| 23/06/2013 00:00:00 | ♃  | 29°17'48" ♉ | 23°12'39"  | -00°13'21" | 00°13'45"  | 6.137  |
| 23/06/2013 00:00:00 | ♅  | 05°00'23" ♎ | -10°47'31" | 02°32'30"  | -00°01'27" | 9.242  |
| 23/06/2013 00:00:00 | ♁  | 12°16'31" ♏ | 04°12'47"  | -00°41'32" | 00°01'11"  | 20.209 |
| 23/06/2013 00:00:00 | ♆  | 05°18'30" ♏ | -10°10'46" | -00°39'44" | -00°00'29" | 29.519 |
| 23/06/2013 00:00:00 | ♁  | 10°31'02" ♏ | -19°47'11" | 03°14'32"  | -00°01'29" | 31.456 |
| 23/06/2013 00:00:00 | ♁  | 16°02'17" ♎ | -16°38'06" | 00°00'00"  | -00°04'49" | 0.002  |
| 23/06/2013 00:00:00 | ♁  | 13°48'51" ♏ | -01°26'11" | 05°20'07"  | -00°00'21" | 17.208 |
| 23/06/2013 00:00:00 | ♁  | 01°30'49" ♉ | 19°39'16"  | -03°46'21" | 00°06'41"  | 0.003  |
| 23/06/2013 00:00:00 | T♁ | 16°02'17" ♎ | -16°38'06" | 00°00'00"  | -00°04'49" | 0.002  |
| 23/06/2013 00:00:00 | T♁ | 02°44'58" ♉ | 19°39'29"  | -03°44'58" | -01°44'45" | 0.003  |
| 23/06/2013 00:00:00 | X  | 22°53'42" ♏ | -03°09'16" | -12°57'46" | 00°00'16"  | 96.821 |
| 23/06/2013 00:00:00 | Y  | 23°58'43" ♏ | 07°17'44"  | -11°48'55" | 00°00'38"  | 87.327 |
| 24/06/2013 00:00:00 | ♁  | 02°39'36" ♉ | 23°24'31"  | 00°00'00"  | 00°57'13"  | 1.016  |
| 24/06/2013 00:00:00 | ♃  | 10°06'14" ♏ | -18°53'40" | 04°10'04"  | 15°16'51"  | 0.002  |
| 24/06/2013 00:00:00 | ♀  | 22°51'56" ♉ | 20°13'02"  | -01°17'53" | 00°11'41"  | 0.652  |
| 24/06/2013 00:00:00 | ♀  | 25°29'33" ♉ | 22°31'21"  | 01°30'35"  | 01°12'55"  | 1.537  |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 24/06/2013 00:00:00 | ♂ | 16°35'23" ♀ | 23°04'29"  | 00°18'59"  | 00°41'37"  | 2.460  |
| 24/06/2013 00:00:00 | ♃ | 29°31'33" ♀ | 23°12'49"  | -00°13'15" | 00°13'45"  | 6.137  |
| 24/06/2013 00:00:00 | ♅ | 04°58'58" ♃ | -10°47'17" | 02°32'15"  | -00°01'22" | 9.256  |
| 24/06/2013 00:00:00 | ♁ | 12°17'41" ♀ | 04°13'12"  | -00°41'34" | 00°01'08"  | 20.192 |
| 24/06/2013 00:00:00 | ♆ | 05°18'00" ♃ | -10°10'59" | -00°39'45" | -00°00'31" | 29.504 |
| 24/06/2013 00:00:00 | ♁ | 10°29'33" ♃ | -19°47'23" | 03°14'27"  | -00°01'29" | 31.454 |
| 24/06/2013 00:00:00 | ♁ | 15°56'38" ♃ | -16°36'29" | 00°00'00"  | -00°06'20" | 0.002  |
| 24/06/2013 00:00:00 | ♃ | 13°48'28" ♃ | -01°26'06" | 05°20'22"  | -00°00'25" | 17.194 |
| 24/06/2013 00:00:00 | ♁ | 01°37'30" ♃ | 19°38'35"  | -03°46'57" | 00°06'41"  | 0.003  |
| 24/06/2013 00:00:00 | ♁ | 15°56'38" ♃ | -16°36'29" | 00°00'00"  | -00°06'20" | 0.002  |
| 24/06/2013 00:00:00 | ♁ | 01°01'25" ♃ | 19°47'22"  | -03°38'31" | -01°45'16" | 0.003  |
| 24/06/2013 00:00:00 | X | 22°53'58" ♀ | -03°09'16" | -12°57'52" | 00°00'15"  | 96.805 |
| 24/06/2013 00:00:00 | Y | 23°59'21" ♃ | 07°17'48"  | -11°49'00" | 00°00'38"  | 87.316 |
| 25/06/2013 00:00:00 | ♁ | 03°36'48" ♃ | 23°23'10"  | 00°00'00"  | 00°57'12"  | 1.016  |
| 25/06/2013 00:00:00 | ♁ | 25°19'21" ♃ | -16°20'25" | 04°48'27"  | 15°07'36"  | 0.002  |
| 25/06/2013 00:00:00 | ♁ | 23°01'20" ♃ | 19°55'53"  | -01°33'41" | 00°07'06"  | 0.641  |
| 25/06/2013 00:00:00 | ♀ | 26°42'28" ♃ | 22°18'36"  | 01°31'40"  | 01°12'54"  | 1.532  |
| 25/06/2013 00:00:00 | ♂ | 17°17'00" ♀ | 23°09'11"  | 00°19'36"  | 00°41'34"  | 2.459  |
| 25/06/2013 00:00:00 | ♃ | 29°45'18" ♀ | 23°12'57"  | -00°13'10" | 00°13'44"  | 6.136  |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 25/06/2013 00:00:00 | ♃ | 04°57'38" ♍ | -10°47'05" | 02°32'00"  | -00°01'16" | 9.270  |
| 25/06/2013 00:00:00 | ♃ | 12°18'48" ♀ | 04°13'37"  | -00°41'35" | 00°01'05"  | 20.175 |
| 25/06/2013 00:00:00 | ♃ | 05°17'27" ♃ | -10°11'12" | -00°39'47" | -00°00'33" | 29.489 |
| 25/06/2013 00:00:00 | ♃ | 10°28'03" ♃ | -19°47'35" | 03°14'21"  | -00°01'29" | 31.453 |
| 25/06/2013 00:00:00 | ♃ | 15°49'52" ♍ | -16°34'31" | 00°00'00"  | -00°07'03" | 0.002  |
| 25/06/2013 00:00:00 | ♃ | 13°48'01" ♃ | -01°26'03" | 05°20'36"  | -00°00'28" | 17.179 |
| 25/06/2013 00:00:00 | ♃ | 01°44'11" ♃ | 19°37'54"  | -03°47'33" | 00°06'41"  | 0.003  |
| 25/06/2013 00:00:00 | ♃ | 15°49'52" ♍ | -16°34'31" | 00°00'00"  | -00°07'03" | 0.002  |
| 25/06/2013 00:00:00 | ♃ | 29°09'13" ♃ | 19°54'26"  | -03°31'31" | -02°01'01" | 0.003  |
| 25/06/2013 00:00:00 | X | 22°54'13" ♀ | -03°09'15" | -12°57'58" | 00°00'15"  | 96.790 |
| 25/06/2013 00:00:00 | Y | 23°59'59" ♀ | 07°17'52"  | -11°49'05" | 00°00'37"  | 87.305 |
| 26/06/2013 00:00:00 | ♃ | 04°34'01" ♃ | 23°21'24"  | 00°00'00"  | 00°57'12"  | 1.016  |
| 26/06/2013 00:00:00 | ♃ | 10°18'17" ♃ | -12°44'06" | 05°06'21"  | 14°48'52"  | 0.002  |
| 26/06/2013 00:00:00 | ♃ | 23°06'09" ♃ | 19°39'19"  | -01°49'42" | 00°02'30"  | 0.630  |
| 26/06/2013 00:00:00 | ♃ | 27°55'21" ♃ | 22°05'14"  | 01°32'40"  | 01°12'52"  | 1.527  |
| 26/06/2013 00:00:00 | ♃ | 17°58'33" ♃ | 23°13'39"  | 00°20'14"  | 00°41'31"  | 2.458  |
| 26/06/2013 00:00:00 | ♃ | 29°59'02" ♃ | 23°13'03"  | -00°13'04" | 00°13'44"  | 6.136  |
| 26/06/2013 00:00:00 | ♃ | 04°56'24" ♍ | -10°46'54" | 02°31'45"  | -00°01'11" | 9.284  |
| 26/06/2013 00:00:00 | ♃ | 12°19'52" ♀ | 04°14'00"  | -00°41'37" | 00°01'02"  | 20.159 |



Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 26/06/2013 00:00:00 | ♁  | 05°16'53" ♋ | -10°11'27" | -00°39'49" | -00°00'35" | 29.475 |
| 26/06/2013 00:00:00 | ♁  | 10°26'33" ♋ | -19°47'48" | 03°14'16"  | -00°01'30" | 31.452 |
| 26/06/2013 00:00:00 | ♁  | 15°42'51" ♋ | -16°32'29" | 00°00'00"  | -00°06'48" | 0.002  |
| 26/06/2013 00:00:00 | ♁  | 13°47'31" ♋ | -01°26'01" | 05°20'51"  | -00°00'31" | 17.164 |
| 26/06/2013 00:00:00 | ♁  | 01°50'53" ♋ | 19°37'13"  | -03°48'09" | 00°06'41"  | 0.003  |
| 26/06/2013 00:00:00 | T♁ | 15°42'51" ♋ | -16°32'29" | 00°00'00"  | -00°06'48" | 0.002  |
| 26/06/2013 00:00:00 | T♁ | 26°57'50" ♋ | 20°00'53"  | -03°23'12" | -02°21'08" | 0.003  |
| 26/06/2013 00:00:00 | X  | 22°54'28" ♋ | -03°09'15" | -12°58'03" | 00°00'14"  | 96.774 |
| 26/06/2013 00:00:00 | Y  | 24°00'37" ♋ | 07°17'55"  | -11°49'10" | 00°00'37"  | 87.294 |
| 27/06/2013 00:00:00 | ♁  | 05°31'13" ♋ | 23°19'13"  | 00°00'00"  | 00°57'12"  | 1.017  |
| 27/06/2013 00:00:00 | ♁  | 24°54'50" ♋ | -08°26'22" | 05°03'42"  | 14°23'24"  | 0.002  |
| 27/06/2013 00:00:00 | ♁  | 23°06'22" ♋ | 19°23'24"  | -02°05'47" | -00°02'04" | 0.620  |
| 27/06/2013 00:00:00 | ♁  | 29°08'13" ♋ | 21°51'14"  | 01°33'37"  | 01°12'51"  | 1.523  |
| 27/06/2013 00:00:00 | ♁  | 18°40'03" ♋ | 23°17'55"  | 00°20'52"  | 00°41'28"  | 2.457  |
| 27/06/2013 00:00:00 | ♁  | 00°12'46" ♋ | 23°13'08"  | -00°12'58" | 00°13'43"  | 6.135  |
| 27/06/2013 00:00:00 | ♁  | 04°55'16" ♋ | -10°46'46" | 02°31'29"  | -00°01'05" | 9.298  |
| 27/06/2013 00:00:00 | ♁  | 12°20'53" ♋ | 04°14'22"  | -00°41'39" | 00°00'59"  | 20.142 |
| 27/06/2013 00:00:00 | ♁  | 05°16'17" ♋ | -10°11'41" | -00°39'51" | -00°00'36" | 29.460 |
| 27/06/2013 00:00:00 | ♁  | 10°25'03" ♋ | -19°48'00" | 03°14'10"  | -00°01'30" | 31.450 |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 27/06/2013 00:00:00 | ♏ | 15°36'32" ♍ | -16°30'40" | 00°00'00"  | -00°05'40" | 0.002  |
| 27/06/2013 00:00:00 | ♋ | 13°46'57" ♉ | -01°26'01" | 05°21'05"  | -00°00'35" | 17.149 |
| 27/06/2013 00:00:00 | ♌ | 01°57'34" ♉ | 19°36'32"  | -03°48'44" | 00°06'41"  | 0.003  |
| 27/06/2013 00:00:00 | ♏ | 15°36'32" ♍ | -16°30'40" | 00°00'00"  | -00°05'40" | 0.002  |
| 27/06/2013 00:00:00 | ♌ | 24°31'00" ♉ | 20°05'52"  | -03°13'35" | -02°29'10" | 0.003  |
| 27/06/2013 00:00:00 | X | 22°54'42" ♀ | -03°09'16" | -12°58'09" | 00°00'13"  | 96.758 |
| 27/06/2013 00:00:00 | Y | 24°01'14" ♂ | 07°17'59"  | -11°49'16" | 00°00'36"  | 87.282 |
| 28/06/2013 00:00:00 | ♏ | 06°28'26" ♉ | 23°16'38"  | 00°00'00"  | 00°57'12"  | 1.017  |
| 28/06/2013 00:00:00 | ♌ | 09°03'59" ♉ | -03°48'13" | 04°42'22"  | 13°54'37"  | 0.002  |
| 28/06/2013 00:00:00 | ♌ | 23°02'01" ♉ | 19°08'16"  | -02°21'52" | -00°06'36" | 0.610  |
| 28/06/2013 00:00:00 | ♌ | 00°21'04" ♉ | 21°36'38"  | 01°34'30"  | 01°12'50"  | 1.518  |
| 28/06/2013 00:00:00 | ♌ | 19°21'30" ♉ | 23°21'58"  | 00°21'29"  | 00°41'25"  | 2.456  |
| 28/06/2013 00:00:00 | ♌ | 00°26'29" ♉ | 23°13'11"  | -00°12'53" | 00°13'42"  | 6.134  |
| 28/06/2013 00:00:00 | ♌ | 04°54'13" ♍ | -10°46'40" | 02°31'14"  | -00°00'59" | 9.313  |
| 28/06/2013 00:00:00 | ♌ | 12°21'52" ♀ | 04°14'44"  | -00°41'41" | 00°00'57"  | 20.126 |
| 28/06/2013 00:00:00 | ♌ | 05°15'39" ♉ | -10°11'57" | -00°39'53" | -00°00'38" | 29.446 |
| 28/06/2013 00:00:00 | ♌ | 10°23'32" ♉ | -19°48'12" | 03°14'05"  | -00°01'30" | 31.450 |
| 28/06/2013 00:00:00 | ♏ | 15°31'43" ♍ | -16°29'16" | 00°00'00"  | -00°03'55" | 0.002  |
| 28/06/2013 00:00:00 | ♋ | 13°46'21" ♉ | -01°26'02" | 05°21'19"  | -00°00'38" | 17.135 |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 28/06/2013 00:00:00 | ☾ | 02°04'15" ♉ | 19°35'50"  | -03°49'20" | 00°06'41"  | 0.003  |
| 28/06/2013 00:00:00 | ♁ | 15°31'43" ♎ | -16°29'16" | 00°00'00"  | -00°03'55" | 0.002  |
| 28/06/2013 00:00:00 | ♁ | 22°07'52" ♉ | 20°08'32"  | -03°03'53" | -02°12'28" | 0.003  |
| 28/06/2013 00:00:00 | X | 22°54'56" ♀ | -03°09'16" | -12°58'15" | 00°00'13"  | 96.742 |
| 28/06/2013 00:00:00 | Y | 24°01'50" ♀ | 07°18'02"  | -11°49'21" | 00°00'36"  | 87.270 |
| 29/06/2013 00:00:00 | ☉ | 07°25'38" ♉ | 23°13'38"  | 00°00'00"  | 00°57'12"  | 1.017  |
| 29/06/2013 00:00:00 | ☾ | 22°44'03" ♉ | 00°52'29"  | 04°05'24"  | 13°25'43"  | 0.003  |
| 29/06/2013 00:00:00 | ♀ | 22°53'11" ♉ | 18°53'58"  | -02°37'50" | -00°11'02" | 0.601  |
| 29/06/2013 00:00:00 | ♀ | 01°33'53" ♀ | 21°21'25"  | 01°35'18"  | 01°12'48"  | 1.513  |
| 29/06/2013 00:00:00 | ♂ | 20°02'54" ♉ | 23°25'48"  | 00°22'07"  | 00°41'22"  | 2.455  |
| 29/06/2013 00:00:00 | ♃ | 00°40'12" ♉ | 23°13'14"  | -00°12'47" | 00°13'42"  | 6.132  |
| 29/06/2013 00:00:00 | ♃ | 04°53'16" ♎ | -10°46'36" | 02°30'58"  | -00°00'54" | 9.328  |
| 29/06/2013 00:00:00 | ♃ | 12°22'48" ♀ | 04°15'04"  | -00°41'43" | 00°00'54"  | 20.109 |
| 29/06/2013 00:00:00 | ♃ | 05°14'59" ♉ | -10°12'13" | -00°39'55" | -00°00'40" | 29.431 |
| 29/06/2013 00:00:00 | ♃ | 10°22'02" ♉ | -19°48'25" | 03°13'59"  | -00°01'30" | 31.449 |
| 29/06/2013 00:00:00 | ♁ | 15°28'46" ♎ | -16°28'24" | 00°00'00"  | -00°01'58" | 0.002  |
| 29/06/2013 00:00:00 | ♃ | 13°45'40" ♉ | -01°26'04" | 05°21'33"  | -00°00'41" | 17.120 |
| 29/06/2013 00:00:00 | ☾ | 02°10'57" ♉ | 19°35'08"  | -03°49'56" | 00°06'41"  | 0.003  |
| 29/06/2013 00:00:00 | ♁ | 15°28'46" ♎ | -16°28'24" | 00°00'00"  | -00°01'58" | 0.002  |

Ephemerides year 2013

|                     |    |             |             |            |            |        |
|---------------------|----|-------------|-------------|------------|------------|--------|
| 29/06/2013 00:00:00 | T♄ | 20°14'41" ♀ | 20°09'07"   | -02°55'57" | -01°30'18" | 0.003  |
| 29/06/2013 00:00:00 | X  | 22°55'08" ♀ | -03°09'17"  | -12°58'21" | 00°00'12"  | 96.726 |
| 29/06/2013 00:00:00 | Y  | 24°02'26" ♂ | 07°18'05"   | -11°49'26" | 00°00'35"  | 87.258 |
| 30/06/2013 00:00:00 | ☉  | 08°22'51" ♀ | 23°10'14"   | 00°00'00"  | 00°57'12"  | 1.017  |
| 30/06/2013 00:00:00 | ☾  | 05°56'12" ♀ | 05°21'45"   | 03°16'23"  | 12°59'06"  | 0.003  |
| 30/06/2013 00:00:00 | ♁  | 22°39'59" ♀ | 18°40'36"   | -02°53'33" | -00°15'20" | 0.594  |
| 30/06/2013 00:00:00 | ♂  | 02°46'41" ♂ | 21°05'36"   | 01°36'03"  | 01°12'47"  | 1.508  |
| 30/06/2013 00:00:00 | ♂  | 20°44'16" ♀ | 23°29'24" ○ | 00°22'44"  | 00°41'19"  | 2.454  |
| 30/06/2013 00:00:00 | ♃  | 00°53'54" ♀ | 23°13'14"   | -00°12'42" | 00°13'41"  | 6.131  |
| 30/06/2013 00:00:00 | ♄  | 04°52'25" ♀ | -10°46'33"  | 02°30'43"  | -00°00'48" | 9.342  |
| 30/06/2013 00:00:00 | ♅  | 12°23'40" ♀ | 04°15'22"   | -00°41'45" | 00°00'51"  | 20.092 |
| 30/06/2013 00:00:00 | ♆  | 05°14'18" ♀ | -10°12'30"  | -00°39'56" | -00°00'42" | 29.417 |
| 30/06/2013 00:00:00 | ♇  | 10°20'31" ♀ | -19°48'38"  | 03°13'53"  | -00°01'30" | 31.449 |
| 30/06/2013 00:00:00 | ♈  | 15°27'40" ♀ | -16°28'05"  | 00°00'00"  | -00°00'17" | 0.002  |
| 30/06/2013 00:00:00 | ♉  | 13°44'57" ♀ | -01°26'07"  | 05°21'47"  | -00°00'44" | 17.106 |
| 30/06/2013 00:00:00 | ♊  | 02°17'38" ♀ | 19°34'26"   | -03°50'31" | 00°06'41"  | 0.003  |
| 30/06/2013 00:00:00 | T♈ | 15°27'40" ♀ | -16°28'05"  | 00°00'00"  | -00°00'17" | 0.002  |
| 30/06/2013 00:00:00 | T♄ | 19°12'15" ♀ | 20°08'53"   | -02°51'27" | -00°33'13" | 0.003  |
| 30/06/2013 00:00:00 | X  | 22°55'21" ♀ | -03°09'18"  | -12°58'27" | 00°00'11"  | 96.710 |

Ephemerides year 2013

|                     |    |             |             |            |            |        |
|---------------------|----|-------------|-------------|------------|------------|--------|
| 30/06/2013 00:00:00 | Y  | 24°03'02" ♃ | 07°18'07"   | -11°49'32" | 00°00'35"  | 87.246 |
| 01/07/2013 00:00:00 | ☉  | 09°20'03" ♃ | 23°06'25"   | 00°00'00"  | 00°57'12"  | 1.017  |
| 01/07/2013 00:00:00 | ☾  | 18°43'35" ♃ | 09°28'35"   | 02°18'54"  | 12°36'21"  | 0.003  |
| 01/07/2013 00:00:00 | ♀  | 22°22'35" ♃ | 18°28'15"   | -03°08'53" | -00°19'26" | 0.587  |
| 01/07/2013 00:00:00 | ♀  | 03°59'28" ♃ | 20°49'12"   | 01°36'43"  | 01°12'46"  | 1.504  |
| 01/07/2013 00:00:00 | ♂  | 21°25'34" ♃ | 23°32'48" ○ | 00°23'21"  | 00°41'16"  | 2.453  |
| 01/07/2013 00:00:00 | ♃  | 01°07'35" ♃ | 23°13'13"   | -00°12'36" | 00°13'40"  | 6.129  |
| 01/07/2013 00:00:00 | ♃  | 04°51'39" ♃ | -10°46'33"  | 02°30'27"  | -00°00'42" | 9.357  |
| 01/07/2013 00:00:00 | ♃  | 12°24'30" ♃ | 04°15'40"   | -00°41'46" | 00°00'48"  | 20.075 |
| 01/07/2013 00:00:00 | ♃  | 05°13'35" ♃ | -10°12'48"  | -00°39'58" | -00°00'43" | 29.403 |
| 01/07/2013 00:00:00 | ♃  | 10°19'00" ♃ | -19°48'51"  | 03°13'47"  | -00°01'30" | 31.449 |
| 01/07/2013 00:00:00 | ♃  | 15°27'59" ♃ | -16°28'11"  | 00°00'00"  | 00°00'46"  | 0.002  |
| 01/07/2013 00:00:00 | ♃  | 13°44'11" ♃ | -01°26'12"  | 05°22'01"  | -00°00'48" | 17.092 |
| 01/07/2013 00:00:00 | ♃  | 02°24'19" ♃ | 19°33'44"   | -03°51'06" | 00°06'41"  | 0.003  |
| 01/07/2013 00:00:00 | T♃ | 15°27'59" ♃ | -16°28'11"  | 00°00'00"  | 00°00'46"  | 0.002  |
| 01/07/2013 00:00:00 | T♃ | 19°08'39" ♃ | 20°08'55"   | -02°51'08" | 00°25'13"  | 0.003  |
| 01/07/2013 00:00:00 | X  | 22°55'32" ♃ | -03°09'20"  | -12°58'33" | 00°00'11"  | 96.694 |
| 01/07/2013 00:00:00 | Y  | 24°03'37" ♃ | 07°18'10"   | -11°49'38" | 00°00'34"  | 87.233 |
| 02/07/2013 00:00:00 | ☉  | 10°17'16" ♃ | 23°02'12"   | 00°00'00"  | 00°57'12"  | 1.017  |

Ephemerides year 2013

|                     |   |             |             |            |            |        |
|---------------------|---|-------------|-------------|------------|------------|--------|
| 02/07/2013 00:00:00 | ♃ | 01°10'27" ♄ | 13°04'19"   | 01°16'15"  | 12°18'11"  | 0.003  |
| 02/07/2013 00:00:00 | ♆ | 22°01'12" ♃ | 18°17'00"   | -03°23'43" | -00°23'16" | 0.581  |
| 02/07/2013 00:00:00 | ♀ | 05°12'14" ♁ | 20°32'14"   | 01°37'19"  | 01°12'44"  | 1.499  |
| 02/07/2013 00:00:00 | ♂ | 22°06'49" ♀ | 23°35'59" ♁ | 00°23'59"  | 00°41'13"  | 2.452  |
| 02/07/2013 00:00:00 | ♁ | 01°21'15" ♃ | 23°13'11"   | -00°12'31" | 00°13'39"  | 6.127  |
| 02/07/2013 00:00:00 | ♄ | 04°51'00" ♃ | -10°46'35"  | 02°30'11"  | -00°00'36" | 9.372  |
| 02/07/2013 00:00:00 | ♃ | 12°25'18" ♀ | 04°15'57"   | -00°41'48" | 00°00'45"  | 20.059 |
| 02/07/2013 00:00:00 | ♂ | 05°12'50" ♃ | -10°13'06"  | -00°40'00" | -00°00'45" | 29.389 |
| 02/07/2013 00:00:00 | ♂ | 10°17'30" ♃ | -19°49'03"  | 03°13'41"  | -00°01'30" | 31.450 |
| 02/07/2013 00:00:00 | ♁ | 15°28'56" ♃ | -16°28'27"  | 00°00'00"  | 00°00'58"  | 0.002  |
| 02/07/2013 00:00:00 | ♂ | 13°43'21" ♃ | -01°26'18"  | 05°22'15"  | -00°00'51" | 17.078 |
| 02/07/2013 00:00:00 | ♁ | 02°31'00" ♃ | 19°33'02"   | -03°51'41" | 00°06'41"  | 0.003  |
| 02/07/2013 00:00:00 | ♁ | 15°28'56" ♃ | -16°28'27"  | 00°00'00"  | 00°00'58"  | 0.002  |
| 02/07/2013 00:00:00 | ♁ | 19°59'47" ♀ | 20°09'15"   | -02°54'43" | 01°15'04"  | 0.003  |
| 02/07/2013 00:00:00 | X | 22°55'43" ♀ | -03°09'21"  | -12°58'39" | 00°00'10"  | 96.678 |
| 02/07/2013 00:00:00 | Y | 24°04'11" ♄ | 07°18'12"   | -11°49'44" | 00°00'34"  | 87.221 |
| 03/07/2013 00:00:00 | ♁ | 11°14'29" ♃ | 22°57'35"   | -00°00'00" | 00°57'13"  | 1.017  |
| 03/07/2013 00:00:00 | ♃ | 13°21'32" ♄ | 16°01'44"   | 00°11'28"  | 12°04'43"  | 0.003  |
| 03/07/2013 00:00:00 | ♆ | 21°36'08" ♃ | 18°06'53"   | -03°37'53" | -00°26'47" | 0.576  |

Ephemerides year 2013

|                     |    |             |             |            |            |        |
|---------------------|----|-------------|-------------|------------|------------|--------|
| 03/07/2013 00:00:00 | ♀  | 06°24'58" ♋ | 20°14'42"   | 01°37'51"  | 01°12'43"  | 1.494  |
| 03/07/2013 00:00:00 | ♂  | 22°48'02" ♉ | 23°38'57" ♁ | 00°24'36"  | 00°41'10"  | 2.451  |
| 03/07/2013 00:00:00 | ♃  | 01°34'55" ♉ | 23°13'07"   | -00°12'26" | 00°13'39"  | 6.125  |
| 03/07/2013 00:00:00 | ♄  | 04°50'26" ♎ | -10°46'38"  | 02°29'56"  | -00°00'30" | 9.387  |
| 03/07/2013 00:00:00 | ♅  | 12°26'02" ♏ | 04°16'12"   | -00°41'50" | 00°00'42"  | 20.042 |
| 03/07/2013 00:00:00 | ♆  | 05°12'04" ♏ | -10°13'24"  | -00°40'02" | -00°00'47" | 29.375 |
| 03/07/2013 00:00:00 | ♁  | 10°15'59" ♎ | -19°49'16"  | 03°13'35"  | -00°01'30" | 31.450 |
| 03/07/2013 00:00:00 | ♁  | 15°29'37" ♎ | -16°28'39"  | 00°00'00"  | 00°00'13"  | 0.002  |
| 03/07/2013 00:00:00 | ♂  | 13°42'28" ♏ | -01°26'26"  | 05°22'28"  | -00°00'54" | 17.064 |
| 03/07/2013 00:00:00 | ♁  | 02°37'42" ♉ | 19°32'19"   | -03°52'16" | 00°06'41"  | 0.003  |
| 03/07/2013 00:00:00 | T♁ | 15°29'37" ♎ | -16°28'39"  | 00°00'00"  | 00°00'13"  | 0.002  |
| 03/07/2013 00:00:00 | T♁ | 21°34'19" ♉ | 20°09'05"   | -03°01'19" | 01°51'40"  | 0.003  |
| 03/07/2013 00:00:00 | X  | 22°55'54" ♏ | -03°09'23"  | -12°58'45" | 00°00'10"  | 96.661 |
| 03/07/2013 00:00:00 | Y  | 24°04'46" ♏ | 07°18'14"   | -11°49'50" | 00°00'33"  | 87.208 |
| 04/07/2013 00:00:00 | ☉  | 12°11'42" ♉ | 22°52'34"   | -00°00'00" | 00°57'13"  | 1.017  |
| 04/07/2013 00:00:00 | ☾  | 25°21'24" ♏ | 18°14'44"   | -00°52'43" | 11°55'42"  | 0.003  |
| 04/07/2013 00:00:00 | ♁  | 21°07'44" ♉ | 17°58'00"   | -03°51'14" | -00°29'56" | 0.572  |
| 04/07/2013 00:00:00 | ♀  | 07°37'41" ♋ | 19°56'37"   | 01°38'19"  | 01°12'42"  | 1.489  |
| 04/07/2013 00:00:00 | ♂  | 23°29'11" ♉ | 23°41'42" ♁ | 00°25'13"  | 00°41'08"  | 2.450  |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 04/07/2013 00:00:00 | ♃ | 01°48'33" ♉ | 23°13'02"  | -00°12'20" | 00°13'38"  | 6.123  |
| 04/07/2013 00:00:00 | ♃ | 04°49'58" ♉ | -10°46'44" | 02°29'40"  | -00°00'24" | 9.403  |
| 04/07/2013 00:00:00 | ♃ | 12°26'43" ♉ | 04°16'27"  | -00°41'52" | 00°00'40"  | 20.025 |
| 04/07/2013 00:00:00 | ♃ | 05°11'15" ♉ | -10°13'44" | -00°40'03" | -00°00'48" | 29.362 |
| 04/07/2013 00:00:00 | ♃ | 10°14'28" ♉ | -19°49'29" | 03°13'29"  | -00°01'30" | 31.451 |
| 04/07/2013 00:00:00 | ♃ | 15°29'07" ♉ | -16°28'30" | 00°00'00"  | -00°01'22" | 0.002  |
| 04/07/2013 00:00:00 | ♃ | 13°41'32" ♉ | -01°26'35" | 05°22'42"  | -00°00'57" | 17.050 |
| 04/07/2013 00:00:00 | ♃ | 02°44'23" ♉ | 19°31'36"  | -03°52'51" | 00°06'41"  | 0.003  |
| 04/07/2013 00:00:00 | ♃ | 15°29'07" ♉ | -16°28'30" | 00°00'00"  | -00°01'22" | 0.002  |
| 04/07/2013 00:00:00 | ♃ | 23°38'32" ♉ | 20°07'21"  | -03°09'49" | 02°14'38"  | 0.003  |
| 04/07/2013 00:00:00 | X | 22°56'04" ♉ | -03°09'25" | -12°58'51" | 00°00'09"  | 96.645 |
| 04/07/2013 00:00:00 | Y | 24°05'19" ♉ | 07°18'16"  | -11°49'56" | 00°00'33"  | 87.195 |
| 05/07/2013 00:00:00 | ♃ | 13°08'56" ♉ | 22°47'09"  | -00°00'00" | 00°57'13"  | 1.017  |
| 05/07/2013 00:00:00 | ♃ | 07°14'14" ♉ | 19°38'34"  | -01°53'51" | 11°50'33"  | 0.003  |
| 05/07/2013 00:00:00 | ♃ | 20°36'24" ♉ | 17°50'24"  | -04°03'39" | -00°32'38" | 0.569  |
| 05/07/2013 00:00:00 | ♃ | 08°50'23" ♉ | 19°37'59"  | 01°38'42"  | 01°12'40"  | 1.484  |
| 05/07/2013 00:00:00 | ♃ | 24°10'18" ♉ | 23°44'14"  | 00°25'50"  | 00°41'05"  | 2.449  |
| 05/07/2013 00:00:00 | ♃ | 02°02'11" ♉ | 23°12'56"  | -00°12'15" | 00°13'36"  | 6.120  |
| 05/07/2013 00:00:00 | ♃ | 04°49'36" ♉ | -10°46'52" | 02°29'24"  | -00°00'19" | 9.418  |



Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 05/07/2013 00:00:00 | ♄  | 12°27'22" ♀ | 04°16'40"  | -00°41'54" | 00°00'37"  | 20.008 |
| 05/07/2013 00:00:00 | ♃  | 05°10'26" ♀ | -10°14'04" | -00°40'05" | -00°00'50" | 29.348 |
| 05/07/2013 00:00:00 | ♁  | 10°12'58" ♀ | -19°49'43" | 03°13'22"  | -00°01'30" | 31.453 |
| 05/07/2013 00:00:00 | ♁  | 15°26'41" ♀ | -16°27'48" | 00°00'00"  | -00°03'34" | 0.002  |
| 05/07/2013 00:00:00 | ♃  | 13°40'33" ♀ | -01°26'45" | 05°22'55"  | -00°01'00" | 17.036 |
| 05/07/2013 00:00:00 | ♁  | 02°51'05" ♀ | 19°30'53"  | -03°53'26" | 00°06'41"  | 0.003  |
| 05/07/2013 00:00:00 | T♁ | 15°26'41" ♀ | -16°27'48" | 00°00'00"  | -00°03'34" | 0.002  |
| 05/07/2013 00:00:00 | T♁ | 25°59'57" ♀ | 20°03'19"  | -03°19'15" | 02°26'42"  | 0.003  |
| 05/07/2013 00:00:00 | X  | 22°56'13" ♀ | -03°09'28" | -12°58'57" | 00°00'09"  | 96.628 |
| 05/07/2013 00:00:00 | Y  | 24°05'53" ♀ | 07°18'18"  | -11°50'02" | 00°00'33"  | 87.182 |
| 06/07/2013 00:00:00 | ♁  | 14°06'09" ♀ | 22°41'20"  | -00°00'00" | 00°57'13"  | 1.017  |
| 06/07/2013 00:00:00 | ♃  | 19°03'36" ♀ | 20°10'01"  | -02°49'37" | 11°48'39"  | 0.003  |
| 06/07/2013 00:00:00 | ♁  | 20°02'36" ♀ | 17°44'06"  | -04°14'57" | -00°34'51" | 0.567  |
| 06/07/2013 00:00:00 | ♁  | 10°03'03" ♀ | 19°18'49"  | 01°39'01"  | 01°12'39"  | 1.479  |
| 06/07/2013 00:00:00 | ♂  | 24°51'21" ♀ | 23°46'34"  | 00°26'27"  | 00°41'02"  | 2.448  |
| 06/07/2013 00:00:00 | ♁  | 02°15'47" ♀ | 23°12'48"  | -00°12'09" | 00°13'35"  | 6.118  |
| 06/07/2013 00:00:00 | ♃  | 04°49'20" ♀ | -10°47'01" | 02°29'08"  | -00°00'13" | 9.434  |
| 06/07/2013 00:00:00 | ♄  | 12°27'58" ♀ | 04°16'52"  | -00°41'56" | 00°00'34"  | 19.991 |
| 06/07/2013 00:00:00 | ♃  | 05°09'34" ♀ | -10°14'24" | -00°40'07" | -00°00'52" | 29.335 |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 06/07/2013 00:00:00 | ♁ | 10°11'27" ♏ | -19°49'56" | 03°13'16"  | -00°01'30" | 31.454 |
| 06/07/2013 00:00:00 | ♁ | 15°21'51" ♎ | -16°26'23" | 00°00'00"  | -00°06'04" | 0.002  |
| 06/07/2013 00:00:00 | ♁ | 13°39'30" ♏ | -01°26'56" | 05°23'08"  | -00°01'03" | 17.023 |
| 06/07/2013 00:00:00 | ♁ | 02°57'46" ♎ | 19°30'10"  | -03°54'01" | 00°06'41"  | 0.003  |
| 06/07/2013 00:00:00 | ♁ | 15°21'51" ♎ | -16°26'23" | 00°00'00"  | -00°06'04" | 0.002  |
| 06/07/2013 00:00:00 | ♁ | 28°29'59" ♎ | 19°56'40"  | -03°28'57" | 02°32'55"  | 0.003  |
| 06/07/2013 00:00:00 | X | 22°56'22" ♏ | -03°09'30" | -12°59'03" | 00°00'08"  | 96.612 |
| 06/07/2013 00:00:00 | Y | 24°06'26" ♏ | 07°18'19"  | -11°50'08" | 00°00'32"  | 87.168 |
| 07/07/2013 00:00:00 | ♁ | 15°03'23" ♎ | 22°35'07"  | -00°00'00" | 00°57'13"  | 1.017  |
| 07/07/2013 00:00:00 | ♁ | 00°52'25" ♎ | 19°48'04"  | -03°37'53" | 11°49'20"  | 0.003  |
| 07/07/2013 00:00:00 | ♁ | 19°26'53" ♎ | 17°39'08"  | -04°25'02" | -00°36'30" | 0.566  |
| 07/07/2013 00:00:00 | ♁ | 11°15'42" ♏ | 18°59'08"  | 01°39'16"  | 01°12'38"  | 1.473  |
| 07/07/2013 00:00:00 | ♁ | 25°32'22" ♎ | 23°48'40"  | 00°27'04"  | 00°40'59"  | 2.446  |
| 07/07/2013 00:00:00 | ♁ | 02°29'23" ♎ | 23°12'39"  | -00°12'04" | 00°13'34"  | 6.115  |
| 07/07/2013 00:00:00 | ♁ | 04°49'10" ♎ | -10°47'13" | 02°28'52"  | -00°00'07" | 9.449  |
| 07/07/2013 00:00:00 | ♁ | 12°28'31" ♏ | 04°17'03"  | -00°41'58" | 00°00'31"  | 19.975 |
| 07/07/2013 00:00:00 | ♁ | 05°08'41" ♏ | -10°14'45" | -00°40'09" | -00°00'53" | 29.322 |
| 07/07/2013 00:00:00 | ♁ | 10°09'57" ♏ | -19°50'09" | 03°13'09"  | -00°01'30" | 31.456 |
| 07/07/2013 00:00:00 | ♁ | 15°14'34" ♎ | -16°24'16" | 00°00'00"  | -00°08'28" | 0.002  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 07/07/2013 00:00:00 | ♄  | 13°38'25" ♉ | -01°27'09" | 05°23'21"  | -00°01'07" | 17.010 |
| 07/07/2013 00:00:00 | ♁  | 03°04'28" ♉ | 19°29'26"  | -03°54'36" | 00°06'41"  | 0.003  |
| 07/07/2013 00:00:00 | ♁♁ | 15°14'34" ♉ | -16°24'16" | 00°00'00"  | -00°08'28" | 0.002  |
| 07/07/2013 00:00:00 | ♁♁ | 01°05'57" ♉ | 19°47'08"  | -03°38'43" | 02°39'34"  | 0.003  |
| 07/07/2013 00:00:00 | X  | 22°56'30" ♉ | -03°09'33" | -12°59'09" | 00°00'07"  | 96.596 |
| 07/07/2013 00:00:00 | Y  | 24°06'58" ♉ | 07°18'21"  | -11°50'14" | 00°00'32"  | 87.155 |
| 08/07/2013 00:00:00 | ♁  | 16°00'37" ♉ | 22°28'31"  | -00°00'00" | 00°57'13"  | 1.017  |
| 08/07/2013 00:00:00 | ♁  | 12°42'57" ♉ | 18°34'02"  | -04°16'45" | 11°52'03"  | 0.003  |
| 08/07/2013 00:00:00 | ♁  | 18°49'48" ♉ | 17°35'33"  | -04°33'46" | -00°37'33" | 0.567  |
| 08/07/2013 00:00:00 | ♀  | 12°28'19" ♉ | 18°38'56"  | 01°39'26"  | 01°12'36"  | 1.468  |
| 08/07/2013 00:00:00 | ♂  | 26°13'19" ♉ | 23°50'34"  | 00°27'41"  | 00°40'55"  | 2.445  |
| 08/07/2013 00:00:00 | ♁  | 02°42'57" ♉ | 23°12'28"  | -00°11'59" | 00°13'33"  | 6.112  |
| 08/07/2013 00:00:00 | ♁  | 04°49'05" ♉ | -10°47'27" | 02°28'36"  | -00°00'01" | 9.465  |
| 08/07/2013 00:00:00 | ♁  | 12°29'01" ♉ | 04°17'13"  | -00°42'00" | 00°00'28"  | 19.958 |
| 08/07/2013 00:00:00 | ♁  | 05°07'47" ♉ | -10°15'07" | -00°40'10" | -00°00'55" | 29.309 |
| 08/07/2013 00:00:00 | ♁  | 10°08'26" ♉ | -19°50'23" | 03°13'02"  | -00°01'30" | 31.458 |
| 08/07/2013 00:00:00 | ♁  | 15°05'05" ♉ | -16°21'30" | 00°00'00"  | -00°10'22" | 0.003  |
| 08/07/2013 00:00:00 | ♄  | 13°37'16" ♉ | -01°27'23" | 05°23'34"  | -00°01'10" | 16.996 |
| 08/07/2013 00:00:00 | ♁  | 03°11'09" ♉ | 19°28'43"  | -03°55'10" | 00°06'41"  | 0.003  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 08/07/2013 00:00:00 | T♄ | 15°05'05" ♍ | -16°21'30" | 00°00'00"  | -00°10'22" | 0.003  |
| 08/07/2013 00:00:00 | T♄ | 03°50'59" ♉ | 19°34'10"  | -03°48'41" | 02°51'35"  | 0.003  |
| 08/07/2013 00:00:00 | X  | 22°56'37" ♀ | -03°09'36" | -12°59'15" | 00°00'07"  | 96.579 |
| 08/07/2013 00:00:00 | Y  | 24°07'30" ♂ | 07°18'22"  | -11°50'21" | 00°00'31"  | 87.141 |
| 09/07/2013 00:00:00 | ☉  | 16°57'51" ♉ | 22°21'32"  | -00°00'00" | 00°57'13"  | 1.017  |
| 09/07/2013 00:00:00 | ☾  | 24°37'03" ♉ | 16°31'37"  | -04°44'33" | 11°56'22"  | 0.003  |
| 09/07/2013 00:00:00 | ♁  | 18°11'58" ♉ | 17°33'20"  | -04°41'03" | -00°37'59" | 0.568  |
| 09/07/2013 00:00:00 | ♂  | 13°40'55" ♋ | 18°18'15"  | 01°39'31"  | 01°12'34"  | 1.463  |
| 09/07/2013 00:00:00 | ♂  | 26°54'14" ♉ | 23°52'15"  | 00°28'18"  | 00°40'52"  | 2.444  |
| 09/07/2013 00:00:00 | ♂  | 02°56'29" ♉ | 23°12'16"  | -00°11'53" | 00°13'31"  | 6.108  |
| 09/07/2013 00:00:00 | ♃  | 04°49'07" ♍ | -10°47'43" | 02°28'20"  | 00°00'04"  | 9.481  |
| 09/07/2013 00:00:00 | ♃  | 12°29'28" ♀ | 04°17'22"  | -00°42'01" | 00°00'25"  | 19.941 |
| 09/07/2013 00:00:00 | ♃  | 05°06'50" ♃ | -10°15'29" | -00°40'12" | -00°00'57" | 29.297 |
| 09/07/2013 00:00:00 | ♃  | 10°06'56" ♃ | -19°50'36" | 03°12'56"  | -00°01'29" | 31.461 |
| 09/07/2013 00:00:00 | ♁  | 14°54'04" ♍ | -16°18'16" | 00°00'00"  | -00°11'30" | 0.003  |
| 09/07/2013 00:00:00 | ♃  | 13°36'05" ♃ | -01°27'39" | 05°23'47"  | -00°01'13" | 16.983 |
| 09/07/2013 00:00:00 | ♁  | 03°17'51" ♉ | 19°27'59"  | -03°55'44" | 00°06'41"  | 0.003  |
| 09/07/2013 00:00:00 | T♄ | 14°54'04" ♍ | -16°18'16" | 00°00'00"  | -00°11'30" | 0.003  |
| 09/07/2013 00:00:00 | T♄ | 06°51'03" ♉ | 19°16'44"  | -03°59'03" | 03°09'09"  | 0.003  |

Ephemerides year 2013

|                     |    |             |             |            |            |        |
|---------------------|----|-------------|-------------|------------|------------|--------|
| 09/07/2013 00:00:00 | X  | 22°56'44" ♀ | -03°09'39"  | -12°59'21" | 00°00'06"  | 96.562 |
| 09/07/2013 00:00:00 | Y  | 24°08'01" ♂ | 07°18'23"   | -11°50'27" | 00°00'30"  | 87.127 |
| 10/07/2013 00:00:00 | ☉  | 17°55'05" ♉ | 22°14'09"   | -00°00'00" | 00°57'14"  | 1.017  |
| 10/07/2013 00:00:00 | ☾  | 06°36'11" ♋ | 13°46'27"   | -05°00'00" | 12°02'07"  | 0.003  |
| 10/07/2013 00:00:00 | ♁  | 17°34'02" ♉ | 17°32'29"   | -04°46'47" | -00°37'46" | 0.571  |
| 10/07/2013 00:00:00 | ♂  | 14°53'29" ♋ | 17°57'04"   | 01°39'32"  | 01°12'33"  | 1.458  |
| 10/07/2013 00:00:00 | ♂  | 27°35'05" ♀ | 23°53'43" ○ | 00°28'54"  | 00°40'49"  | 2.442  |
| 10/07/2013 00:00:00 | ♃  | 03°10'00" ♉ | 23°12'03"   | -00°11'48" | 00°13'30"  | 6.105  |
| 10/07/2013 00:00:00 | ♄  | 04°49'15" ♋ | -10°48'00"  | 02°28'03"  | 00°00'10"  | 9.496  |
| 10/07/2013 00:00:00 | ♅  | 12°29'52" ♀ | 04°17'30"   | -00°42'03" | 00°00'22"  | 19.924 |
| 10/07/2013 00:00:00 | ♆  | 05°05'52" ♉ | -10°15'52"  | -00°40'14" | -00°00'58" | 29.284 |
| 10/07/2013 00:00:00 | ♇  | 10°05'27" ♉ | -19°50'50"  | 03°12'49"  | -00°01'29" | 31.463 |
| 10/07/2013 00:00:00 | ♈  | 14°42'25" ♋ | -16°14'50"  | 00°00'00"  | -00°11'37" | 0.003  |
| 10/07/2013 00:00:00 | ♉  | 13°34'50" ♉ | -01°27'55"  | 05°24'00"  | -00°01'16" | 16.970 |
| 10/07/2013 00:00:00 | ♊  | 03°24'32" ♉ | 19°27'15"   | -03°56'19" | 00°06'41"  | 0.003  |
| 10/07/2013 00:00:00 | T♈ | 14°42'25" ♋ | -16°14'50"  | 00°00'00"  | -00°11'37" | 0.003  |
| 10/07/2013 00:00:00 | T♉ | 10°09'25" ♉ | 18°53'43"   | -04°09'47" | 03°26'55"  | 0.003  |
| 10/07/2013 00:00:00 | X  | 22°56'50" ♀ | -03°09'43"  | -12°59'27" | 00°00'05"  | 96.546 |
| 10/07/2013 00:00:00 | Y  | 24°08'31" ♂ | 07°18'23"   | -11°50'34" | 00°00'30"  | 87.113 |

Ephemerides year 2013

|                     |    |             |             |            |            |        |
|---------------------|----|-------------|-------------|------------|------------|--------|
| 11/07/2013 00:00:00 | ☉  | 18°52'19" ♉ | 22°06'24"   | -00°00'00" | 00°57'14"  | 1.017  |
| 11/07/2013 00:00:00 | ☾  | 18°41'47" ♋ | 10°25'30"   | -05°02'11" | 12°09'20"  | 0.003  |
| 11/07/2013 00:00:00 | ♃  | 16°56'39" ♉ | 17°32'59"   | -04°50'55" | -00°36'53" | 0.575  |
| 11/07/2013 00:00:00 | ♄  | 16°06'01" ♋ | 17°35'25"   | 01°39'29"  | 01°12'31"  | 1.452  |
| 11/07/2013 00:00:00 | ♂  | 28°15'53" ♉ | 23°54'58" ♁ | 00°29'31"  | 00°40'46"  | 2.441  |
| 11/07/2013 00:00:00 | ♅  | 03°23'30" ♉ | 23°11'48"   | -00°11'43" | 00°13'28"  | 6.101  |
| 11/07/2013 00:00:00 | ♆  | 04°49'28" ♎ | -10°48'20"  | 02°27'47"  | 00°00'16"  | 9.512  |
| 11/07/2013 00:00:00 | ♁  | 12°30'13" ♉ | 04°17'36"   | -00°42'05" | 00°00'19"  | 19.908 |
| 11/07/2013 00:00:00 | ♂  | 05°04'53" ♉ | -10°16'15"  | -00°40'15" | -00°01'00" | 29.272 |
| 11/07/2013 00:00:00 | ♁  | 10°03'57" ♉ | -19°51'03"  | 03°12'42"  | -00°01'29" | 31.467 |
| 11/07/2013 00:00:00 | ♁  | 14°31'09" ♎ | -16°11'31"  | 00°00'00"  | -00°10'43" | 0.003  |
| 11/07/2013 00:00:00 | ♂  | 13°33'32" ♉ | -01°28'13"  | 05°24'12"  | -00°01'19" | 16.958 |
| 11/07/2013 00:00:00 | ♁  | 03°31'14" ♉ | 19°26'30"   | -03°56'53" | 00°06'41"  | 0.003  |
| 11/07/2013 00:00:00 | T♁ | 14°31'09" ♎ | -16°11'31"  | 00°00'00"  | -00°10'43" | 0.003  |
| 11/07/2013 00:00:00 | T♁ | 13°42'10" ♉ | 18°24'45"   | -04°20'23" | 03°36'34"  | 0.003  |
| 11/07/2013 00:00:00 | X  | 22°56'56" ♉ | -03°09'47"  | -12°59'34" | 00°00'05"  | 96.529 |
| 11/07/2013 00:00:00 | Y  | 24°09'01" ♉ | 07°18'24"   | -11°50'40" | 00°00'29"  | 87.099 |
| 12/07/2013 00:00:00 | ☉  | 19°49'33" ♉ | 21°58'16"   | -00°00'00" | 00°57'14"  | 1.017  |
| 12/07/2013 00:00:00 | ☾  | 00°55'27" ♎ | 06°36'37"   | -04°50'37" | 12°18'17"  | 0.003  |

Ephemerides year 2013

|                     |    |             |             |            |            |        |
|---------------------|----|-------------|-------------|------------|------------|--------|
| 12/07/2013 00:00:00 | ♀  | 16°20'28" ♃ | 17°34'49"   | -04°53'25" | -00°35'21" | 0.580  |
| 12/07/2013 00:00:00 | ♀  | 17°18'32" ♃ | 17°13'18"   | 01°39'21"  | 01°12'29"  | 1.447  |
| 12/07/2013 00:00:00 | ♂  | 28°56'39" ♃ | 23°56'01" ♁ | 00°30'08"  | 00°40'43"  | 2.439  |
| 12/07/2013 00:00:00 | ♃  | 03°36'58" ♃ | 23°11'32"   | -00°11'37" | 00°13'27"  | 6.097  |
| 12/07/2013 00:00:00 | ♃  | 04°49'47" ♃ | -10°48'42"  | 02°27'31"  | 00°00'22"  | 9.528  |
| 12/07/2013 00:00:00 | ♃  | 12°30'31" ♃ | 04°17'41"   | -00°42'07" | 00°00'16"  | 19.891 |
| 12/07/2013 00:00:00 | ♃  | 05°03'52" ♃ | -10°16'39"  | -00°40'17" | -00°01'01" | 29.260 |
| 12/07/2013 00:00:00 | ♃  | 10°02'28" ♃ | -19°51'17"  | 03°12'34"  | -00°01'29" | 31.470 |
| 12/07/2013 00:00:00 | ♃  | 14°21'16" ♃ | -16°08'36"  | 00°00'00"  | -00°08'54" | 0.002  |
| 12/07/2013 00:00:00 | ♃  | 13°32'11" ♃ | -01°28'33"  | 05°24'24"  | -00°01'22" | 16.945 |
| 12/07/2013 00:00:00 | ♃  | 03°37'55" ♃ | 19°25'46"   | -03°57'27" | 00°06'41"  | 0.003  |
| 12/07/2013 00:00:00 | T♃ | 14°21'16" ♃ | -16°08'36"  | 00°00'00"  | -00°08'54" | 0.002  |
| 12/07/2013 00:00:00 | T♃ | 17°17'25" ♃ | 17°51'07"   | -04°30'05" | 03°30'54"  | 0.003  |
| 12/07/2013 00:00:00 | X  | 22°57'01" ♃ | -03°09'51"  | -12°59'40" | 00°00'04"  | 96.513 |
| 12/07/2013 00:00:00 | Y  | 24°09'31" ♃ | 07°18'24"   | -11°50'47" | 00°00'29"  | 87.084 |
| 13/07/2013 00:00:00 | ♁  | 20°46'47" ♃ | 21°49'45"   | -00°00'00" | 00°57'14"  | 1.017  |
| 13/07/2013 00:00:00 | ♃  | 13°19'06" ♃ | 02°28'10"   | -04°25'18" | 12°29'24"  | 0.003  |
| 13/07/2013 00:00:00 | ♀  | 15°46'07" ♃ | 17°37'56"   | -04°54'15" | -00°33'12" | 0.587  |
| 13/07/2013 00:00:00 | ♀  | 18°31'01" ♃ | 16°50'44"   | 01°39'08"  | 01°12'27"  | 1.442  |

Ephemerides year 2013

|                     |   |             |             |            |            |        |
|---------------------|---|-------------|-------------|------------|------------|--------|
| 13/07/2013 00:00:00 | ♂ | 29°37'21" ♀ | 23°56'50" ♁ | 00°30'44"  | 00°40'40"  | 2.438  |
| 13/07/2013 00:00:00 | ♃ | 03°50'24" ♁ | 23°11'14"   | -00°11'32" | 00°13'25"  | 6.093  |
| 13/07/2013 00:00:00 | ♅ | 04°50'13" ♃ | -10°49'05"  | 02°27'15"  | 00°00'28"  | 9.544  |
| 13/07/2013 00:00:00 | ♁ | 12°30'46" ♀ | 04°17'46"   | -00°42'09" | 00°00'13"  | 19.874 |
| 13/07/2013 00:00:00 | ♆ | 05°02'50" ♃ | -10°17'03"  | -00°40'18" | -00°01'03" | 29.248 |
| 13/07/2013 00:00:00 | ♁ | 10°00'59" ♃ | -19°51'31"  | 03°12'27"  | -00°01'28" | 31.473 |
| 13/07/2013 00:00:00 | ♁ | 14°13'31" ♃ | -16°06'18"  | 00°00'00"  | -00°06'30" | 0.002  |
| 13/07/2013 00:00:00 | ♃ | 13°30'48" ♃ | -01°28'53"  | 05°24'37"  | -00°01'25" | 16.933 |
| 13/07/2013 00:00:00 | ♁ | 03°44'36" ♁ | 19°25'01"   | -03°58'01" | 00°06'41"  | 0.003  |
| 13/07/2013 00:00:00 | ♁ | 14°13'31" ♃ | -16°06'18"  | 00°00'00"  | -00°06'30" | 0.002  |
| 13/07/2013 00:00:00 | ♁ | 20°37'32" ♁ | 17°16'06"   | -04°38'09" | 03°05'57"  | 0.003  |
| 13/07/2013 00:00:00 | X | 22°57'05" ♀ | -03°09'55"  | -12°59'46" | 00°00'03"  | 96.496 |
| 13/07/2013 00:00:00 | Y | 24°10'00" ♂ | 07°18'24"   | -11°50'54" | 00°00'28"  | 87.069 |
| 14/07/2013 00:00:00 | ♁ | 21°44'01" ♁ | 21°40'52"   | -00°00'00" | 00°57'14"  | 1.017  |
| 14/07/2013 00:00:00 | ♃ | 25°55'08" ♃ | -01°50'50"  | -03°46'46" | 12°43'09"  | 0.003  |
| 14/07/2013 00:00:00 | ♁ | 15°14'14" ♃ | 17°42'16"   | -04°53'27" | -00°30'27" | 0.594  |
| 14/07/2013 00:00:00 | ♀ | 19°43'28" ♁ | 16°27'44"   | 01°38'51"  | 01°12'26"  | 1.436  |
| 14/07/2013 00:00:00 | ♂ | 00°17'59" ♁ | 23°57'28" ♁ | 00°31'21"  | 00°40'37"  | 2.436  |
| 14/07/2013 00:00:00 | ♃ | 04°03'48" ♁ | 23°10'56"   | -00°11'27" | 00°13'23"  | 6.089  |



Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 14/07/2013 00:00:00 | ♃ | 04°50'44" ♎ | -10°49'31" | 02°26'59"  | 00°00'34"  | 9.561  |
| 14/07/2013 00:00:00 | ♅ | 12°30'58" ♈ | 04°17'49"  | -00°42'11" | 00°00'10"  | 19.858 |
| 14/07/2013 00:00:00 | ♆ | 05°01'46" ♋ | -10°17'28" | -00°40'20" | -00°01'04" | 29.237 |
| 14/07/2013 00:00:00 | ♁ | 09°59'30" ♉ | -19°51'45" | 03°12'20"  | -00°01'28" | 31.477 |
| 14/07/2013 00:00:00 | ♄ | 14°08'19" ♎ | -16°04'45" | 00°00'00"  | -00°03'55" | 0.002  |
| 14/07/2013 00:00:00 | ♁ | 13°29'21" ♋ | -01°29'15" | 05°24'48"  | -00°01'28" | 16.920 |
| 14/07/2013 00:00:00 | ♁ | 03°51'18" ♉ | 19°24'16"  | -03°58'35" | 00°06'41"  | 0.003  |
| 14/07/2013 00:00:00 | ♄ | 14°08'19" ♎ | -16°04'45" | 00°00'00"  | -00°03'55" | 0.002  |
| 14/07/2013 00:00:00 | ♁ | 23°22'38" ♉ | 16°44'35"  | -04°44'07" | 02°21'01"  | 0.003  |
| 14/07/2013 00:00:00 | X | 22°57'08" ♈ | -03°09'59" | -12°59'52" | 00°00'03"  | 96.479 |
| 14/07/2013 00:00:00 | Y | 24°10'28" ♉ | 07°18'24"  | -11°51'01" | 00°00'27"  | 87.055 |
| 15/07/2013 00:00:00 | ♁ | 22°41'15" ♉ | 21°31'37"  | -00°00'00" | 00°57'14"  | 1.016  |
| 15/07/2013 00:00:00 | ♃ | 08°46'24" ♈ | -06°10'27" | -02°56'03" | 12°59'55"  | 0.003  |
| 15/07/2013 00:00:00 | ♆ | 14°45'24" ♋ | 17°47'47"  | -04°51'02" | -00°27'09" | 0.603  |
| 15/07/2013 00:00:00 | ♀ | 20°55'53" ♋ | 16°04'18"  | 01°38'29"  | 01°12'24"  | 1.431  |
| 15/07/2013 00:00:00 | ♂ | 00°58'35" ♉ | 23°57'52"  | 00°31'57"  | 00°40'34"  | 2.434  |
| 15/07/2013 00:00:00 | ♁ | 04°17'11" ♉ | 23°10'36"  | -00°11'22" | 00°13'21"  | 6.084  |
| 15/07/2013 00:00:00 | ♃ | 04°51'21" ♎ | -10°49'59" | 02°26'43"  | 00°00'40"  | 9.577  |
| 15/07/2013 00:00:00 | ♅ | 12°31'07" ♈ | 04°17'50"  | -00°42'13" | 00°00'07"  | 19.841 |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 15/07/2013 00:00:00 | ♁  | 05°00'40" ♈ | -10°17'54" | -00°40'22" | -00°01'06" | 29.225 |
| 15/07/2013 00:00:00 | ♁  | 09°58'02" ♈ | -19°51'59" | 03°12'12"  | -00°01'28" | 31.482 |
| 15/07/2013 00:00:00 | ♁  | 14°05'34" ♈ | -16°03'56" | 00°00'00"  | -00°01'39" | 0.002  |
| 15/07/2013 00:00:00 | ♁  | 13°27'51" ♈ | -01°29'39" | 05°25'00"  | -00°01'31" | 16.908 |
| 15/07/2013 00:00:00 | ♁  | 03°57'59" ♈ | 19°23'31"  | -03°59'08" | 00°06'41"  | 0.003  |
| 15/07/2013 00:00:00 | T♁ | 14°05'34" ♈ | -16°03'56" | 00°00'00"  | -00°01'39" | 0.002  |
| 15/07/2013 00:00:00 | T♁ | 25°13'48" ♈ | 16°22'04"  | -04°47'45" | 01°18'53"  | 0.003  |
| 15/07/2013 00:00:00 | X  | 22°57'11" ♈ | -03°10'04" | -12°59'58" | 00°00'02"  | 96.463 |
| 15/07/2013 00:00:00 | Y  | 24°10'56" ♈ | 07°18'24"  | -11°51'08" | 00°00'27"  | 87.040 |
| 16/07/2013 00:00:00 | ♁  | 23°38'30" ♈ | 21°22'00"  | -00°00'00" | 00°57'14"  | 1.016  |
| 16/07/2013 00:00:00 | ♁  | 21°56'01" ♈ | -10°19'10" | -01°54'54" | 13°19'49"  | 0.003  |
| 16/07/2013 00:00:00 | ♁  | 14°20'06" ♈ | 17°54'22"  | -04°47'04" | -00°23'20" | 0.613  |
| 16/07/2013 00:00:00 | ♁  | 22°08'16" ♈ | 15°40'27"  | 01°38'02"  | 01°12'22"  | 1.425  |
| 16/07/2013 00:00:00 | ♁  | 01°39'08" ♈ | 23°58'05"  | 00°32'34"  | 00°40'31"  | 2.432  |
| 16/07/2013 00:00:00 | ♁  | 04°30'32" ♈ | 23°10'14"  | -00°11'16" | 00°13'19"  | 6.080  |
| 16/07/2013 00:00:00 | ♁  | 04°52'04" ♈ | -10°50'28" | 02°26'27"  | 00°00'46"  | 9.593  |
| 16/07/2013 00:00:00 | ♁  | 12°31'14" ♈ | 04°17'51"  | -00°42'15" | 00°00'04"  | 19.825 |
| 16/07/2013 00:00:00 | ♁  | 04°59'33" ♈ | -10°18'19" | -00°40'23" | -00°01'07" | 29.214 |
| 16/07/2013 00:00:00 | ♁  | 09°56'34" ♈ | -19°52'13" | 03°12'05"  | -00°01'27" | 31.486 |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 16/07/2013 00:00:00 | ♏ | 14°04'45" ♍ | -16°03'42" | 00°00'00"  | -00°00'07" | 0.002  |
| 16/07/2013 00:00:00 | ♋ | 13°26'19" ♏ | -01°30'03" | 05°25'12"  | -00°01'33" | 16.896 |
| 16/07/2013 00:00:00 | ♌ | 04°04'41" ♎ | 19°22'46"  | -03°59'42" | 00°06'41"  | 0.003  |
| 16/07/2013 00:00:00 | ♏ | 14°04'45" ♍ | -16°03'42" | 00°00'00"  | -00°00'07" | 0.002  |
| 16/07/2013 00:00:00 | ♌ | 25°57'02" ♎ | 16°13'02"  | -04°49'06" | 00°06'48"  | 0.003  |
| 16/07/2013 00:00:00 | X | 22°57'13" ♏ | -03°10'09" | -13°00'05" | 00°00'02"  | 96.446 |
| 16/07/2013 00:00:00 | Y | 24°11'23" ♏ | 07°18'23"  | -11°51'15" | 00°00'26"  | 87.025 |
| 17/07/2013 00:00:00 | ♏ | 24°35'44" ♎ | 21°12'01"  | -00°00'00" | 00°57'14"  | 1.016  |
| 17/07/2013 00:00:00 | ♎ | 05°26'59" ♍ | -14°03'20" | -00°45'45" | 13°42'28"  | 0.003  |
| 17/07/2013 00:00:00 | ♌ | 13°58'52" ♎ | 18°01'58"  | -04°41'37" | -00°19'04" | 0.625  |
| 17/07/2013 00:00:00 | ♌ | 23°20'37" ♏ | 15°16'12"  | 01°37'31"  | 01°12'20"  | 1.419  |
| 17/07/2013 00:00:00 | ♏ | 02°19'37" ♎ | 23°58'04"  | 00°33'10"  | 00°40'28"  | 2.431  |
| 17/07/2013 00:00:00 | ♌ | 04°43'51" ♎ | 23°09'52"  | -00°11'11" | 00°13'17"  | 6.075  |
| 17/07/2013 00:00:00 | ♏ | 04°52'53" ♍ | -10°51'00" | 02°26'10"  | 00°00'51"  | 9.609  |
| 17/07/2013 00:00:00 | ♏ | 12°31'17" ♏ | 04°17'51"  | -00°42'16" | 00°00'02"  | 19.808 |
| 17/07/2013 00:00:00 | ♌ | 04°58'25" ♏ | -10°18'46" | -00°40'25" | -00°01'08" | 29.203 |
| 17/07/2013 00:00:00 | ♌ | 09°55'07" ♏ | -19°52'26" | 03°11'57"  | -00°01'26" | 31.491 |
| 17/07/2013 00:00:00 | ♏ | 14°04'57" ♍ | -16°03'45" | 00°00'00"  | 00°00'19"  | 0.002  |
| 17/07/2013 00:00:00 | ♋ | 13°24'44" ♏ | -01°30'29" | 05°25'23"  | -00°01'36" | 16.885 |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 17/07/2013 00:00:00 | ☾ | 04°11'22" ♉ | 19°22'00"  | -04°00'15" | 00°06'41"  | 0.003  |
| 17/07/2013 00:00:00 | ♁ | 14°04'57" ♎ | -16°03'45" | 00°00'00"  | 00°00'19"  | 0.002  |
| 17/07/2013 00:00:00 | ♁ | 25°28'21" ♉ | 16°19'02"  | -04°48'14" | -01°02'19" | 0.003  |
| 17/07/2013 00:00:00 | X | 22°57'15" ♀ | -03°10'14" | -13°00'11" | 00°00'01"  | 96.429 |
| 17/07/2013 00:00:00 | Y | 24°11'49" ♂ | 07°18'22"  | -11°51'22" | 00°00'26"  | 87.010 |
| 18/07/2013 00:00:00 | ☉ | 25°32'58" ♉ | 21°01'40"  | -00°00'00" | 00°57'14"  | 1.016  |
| 18/07/2013 00:00:00 | ☾ | 19°21'33" ♎ | -17°06'57" | 00°28'00"  | 14°06'46"  | 0.002  |
| 18/07/2013 00:00:00 | ♁ | 13°42'05" ♉ | 18°10'28"  | -04°34'45" | -00°14'25" | 0.637  |
| 18/07/2013 00:00:00 | ♀ | 24°32'57" ♎ | 14°51'34"  | 01°36'55"  | 01°12'18"  | 1.414  |
| 18/07/2013 00:00:00 | ♂ | 03°00'04" ♉ | 23°57'51"  | 00°33'47"  | 00°40'25"  | 2.429  |
| 18/07/2013 00:00:00 | ♂ | 04°57'07" ♉ | 23°09'28"  | -00°11'06" | 00°13'15"  | 6.070  |
| 18/07/2013 00:00:00 | ♁ | 04°53'48" ♎ | -10°51'33" | 02°25'54"  | 00°00'57"  | 9.626  |
| 18/07/2013 00:00:00 | ♁ | 12°31'18" ♀ | 04°17'49"  | -00°42'18" | -00°00'00" | 19.792 |
| 18/07/2013 00:00:00 | ♁ | 04°57'16" ♁ | -10°19'13" | -00°40'26" | -00°01'10" | 29.192 |
| 18/07/2013 00:00:00 | ♁ | 09°53'40" ♁ | -19°52'40" | 03°11'49"  | -00°01'26" | 31.496 |
| 18/07/2013 00:00:00 | ♁ | 14°05'01" ♎ | -16°03'46" | 00°00'00"  | -00°00'24" | 0.002  |
| 18/07/2013 00:00:00 | ♁ | 13°23'06" ♁ | -01°30'55" | 05°25'34"  | -00°01'39" | 16.873 |
| 18/07/2013 00:00:00 | ☾ | 04°18'04" ♉ | 19°21'14"  | -04°00'49" | 00°06'41"  | 0.003  |
| 18/07/2013 00:00:00 | ♁ | 14°05'01" ♎ | -16°03'46" | 00°00'00"  | -00°00'24" | 0.002  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 18/07/2013 00:00:00 | T♄ | 23°58'46" ♉ | 16°37'22"  | -04°45'20" | -01°52'25" | 0.003  |
| 18/07/2013 00:00:00 | X  | 22°57'16" ♀ | -03°10'20" | -13°00'17" | 00°00'00"  | 96.413 |
| 18/07/2013 00:00:00 | Y  | 24°12'15" ♋ | 07°18'21"  | -11°51'29" | 00°00'25"  | 86.994 |
| 19/07/2013 00:00:00 | ☉  | 26°30'13" ♉ | 20°50'59"  | 00°00'00"  | 00°57'14"  | 1.016  |
| 19/07/2013 00:00:00 | ☾  | 03°40'28" ♋ | -19°12'47" | 01°42'01"  | 14°30'47"  | 0.002  |
| 19/07/2013 00:00:00 | ♁  | 13°30'08" ♉ | 18°19'45"  | -04°26'36" | -00°09'26" | 0.651  |
| 19/07/2013 00:00:00 | ♂  | 25°45'14" ♋ | 14°26'33"  | 01°36'14"  | 01°12'16"  | 1.408  |
| 19/07/2013 00:00:00 | ♂  | 03°40'27" ♉ | 23°57'26"  | 00°34'23"  | 00°40'22"  | 2.427  |
| 19/07/2013 00:00:00 | ♃  | 05°10'22" ♉ | 23°09'03"  | -00°11'01" | 00°13'13"  | 6.065  |
| 19/07/2013 00:00:00 | ♄  | 04°54'49" ♋ | -10°52'08" | 02°25'38"  | 00°01'03"  | 9.642  |
| 19/07/2013 00:00:00 | ♅  | 12°31'16" ♀ | 04°17'47"  | -00°42'20" | -00°00'03" | 19.776 |
| 19/07/2013 00:00:00 | ♆  | 04°56'05" ♋ | -10°19'40" | -00°40'28" | -00°01'11" | 29.182 |
| 19/07/2013 00:00:00 | ♇  | 09°52'14" ♋ | -19°52'54" | 03°11'42"  | -00°01'25" | 31.501 |
| 19/07/2013 00:00:00 | ♈  | 14°03'47" ♋ | -16°03'24" | 00°00'00"  | -00°02'12" | 0.002  |
| 19/07/2013 00:00:00 | ♉  | 13°21'25" ♋ | -01°31'24" | 05°25'45"  | -00°01'41" | 16.862 |
| 19/07/2013 00:00:00 | ♊  | 04°24'46" ♉ | 19°20'28"  | -04°01'22" | 00°06'41"  | 0.003  |
| 19/07/2013 00:00:00 | T♁ | 14°03'47" ♋ | -16°03'24" | 00°00'00"  | -00°02'12" | 0.002  |
| 19/07/2013 00:00:00 | T♄ | 21°53'34" ♉ | 17°01'53"  | -04°40'57" | -02°12'49" | 0.003  |
| 19/07/2013 00:00:00 | X  | 22°57'17" ♀ | -03°10'25" | -13°00'23" | 00°00'00"  | 96.396 |

Ephemerides year 2013

|                     |    |             |             |            |            |        |
|---------------------|----|-------------|-------------|------------|------------|--------|
| 19/07/2013 00:00:00 | Y  | 24°12'41" ♃ | 07°18'20"   | -11°51'36" | 00°00'25"  | 86.979 |
| 20/07/2013 00:00:00 | ☉  | 27°27'28" ♃ | 20°39'56"   | 00°00'00"  | 00°57'14"  | 1.016  |
| 20/07/2013 00:00:00 | ☾  | 18°22'08" ♀ | -20°05'04"  | 02°51'09"  | 14°51'45"  | 0.002  |
| 20/07/2013 00:00:00 | ♀  | 13°23'18" ♃ | 18°29'43"   | -04°17'15" | -00°04'10" | 0.666  |
| 20/07/2013 00:00:00 | ♀  | 26°57'29" ♃ | 14°01'10"   | 01°35'29"  | 01°12'13"  | 1.402  |
| 20/07/2013 00:00:00 | ♂  | 04°20'48" ♃ | 23°56'49" ☉ | 00°34'59"  | 00°40'19"  | 2.425  |
| 20/07/2013 00:00:00 | ♃  | 05°23'35" ♃ | 23°08'36"   | -00°10'55" | 00°13'11"  | 6.059  |
| 20/07/2013 00:00:00 | ♃  | 04°55'56" ♃ | -10°52'46"  | 02°25'22"  | 00°01'09"  | 9.659  |
| 20/07/2013 00:00:00 | ♃  | 12°31'11" ♃ | 04°17'43"   | -00°42'22" | -00°00'06" | 19.759 |
| 20/07/2013 00:00:00 | ♃  | 04°54'53" ♃ | -10°20'08"  | -00°40'29" | -00°01'12" | 29.171 |
| 20/07/2013 00:00:00 | ♃  | 09°50'49" ♃ | -19°53'09"  | 03°11'34"  | -00°01'25" | 31.507 |
| 20/07/2013 00:00:00 | ♃  | 14°00'22" ♃ | -16°02'23"  | 00°00'00"  | -00°04'41" | 0.002  |
| 20/07/2013 00:00:00 | ♃  | 13°19'42" ♃ | -01°31'53"  | 05°25'56"  | -00°01'44" | 16.851 |
| 20/07/2013 00:00:00 | ♃  | 04°31'27" ♃ | 19°19'42"   | -04°01'55" | 00°06'41"  | 0.003  |
| 20/07/2013 00:00:00 | T♃ | 14°00'22" ♃ | -16°02'23"  | 00°00'00"  | -00°04'41" | 0.002  |
| 20/07/2013 00:00:00 | T♃ | 19°42'05" ♃ | 17°26'11"   | -04°35'59" | -02°06'49" | 0.003  |
| 20/07/2013 00:00:00 | X  | 22°57'17" ♃ | -03°10'31"  | -13°00'30" | -00°00'00" | 96.379 |
| 20/07/2013 00:00:00 | Y  | 24°13'06" ♃ | 07°18'18"   | -11°51'44" | 00°00'24"  | 86.963 |
| 21/07/2013 00:00:00 | ☉  | 28°24'43" ♃ | 20°28'33"   | 00°00'00"  | 00°57'15"  | 1.016  |

Ephemerides year 2013

|                     |   |             |             |            |            |        |
|---------------------|---|-------------|-------------|------------|------------|--------|
| 21/07/2013 00:00:00 | ♃ | 03°21'55" ♃ | -19°33'47"  | 03°49'50"  | 15°06'31"  | 0.002  |
| 21/07/2013 00:00:00 | ♆ | 13°21'51" ♆ | 18°40'15"   | -04°06'48" | 00°01'18"  | 0.682  |
| 21/07/2013 00:00:00 | ♀ | 28°09'41" ♀ | 13°35'26"   | 01°34'39"  | 01°12'11"  | 1.397  |
| 21/07/2013 00:00:00 | ♂ | 05°01'06" ♆ | 23°55'59" ♁ | 00°35'35"  | 00°40'16"  | 2.423  |
| 21/07/2013 00:00:00 | ♃ | 05°36'46" ♆ | 23°08'09"   | -00°10'50" | 00°13'09"  | 6.054  |
| 21/07/2013 00:00:00 | ♃ | 04°57'08" ♃ | -10°53'25"  | 02°25'06"  | 00°01'15"  | 9.675  |
| 21/07/2013 00:00:00 | ♃ | 12°31'03" ♃ | 04°17'38"   | -00°42'24" | -00°00'09" | 19.743 |
| 21/07/2013 00:00:00 | ♃ | 04°53'40" ♃ | -10°20'36"  | -00°40'31" | -00°01'13" | 29.161 |
| 21/07/2013 00:00:00 | ♃ | 09°49'24" ♃ | -19°53'23"  | 03°11'26"  | -00°01'24" | 31.513 |
| 21/07/2013 00:00:00 | ♃ | 13°54'22" ♃ | -16°00'36"  | 00°00'00"  | -00°07'17" | 0.002  |
| 21/07/2013 00:00:00 | ♃ | 13°17'56" ♃ | -01°32'23"  | 05°26'06"  | -00°01'47" | 16.840 |
| 21/07/2013 00:00:00 | ♃ | 04°38'09" ♆ | 19°18'55"   | -04°02'28" | 00°06'41"  | 0.003  |
| 21/07/2013 00:00:00 | ♃ | 13°54'22" ♃ | -16°00'36"  | 00°00'00"  | -00°07'17" | 0.002  |
| 21/07/2013 00:00:00 | ♃ | 17°43'27" ♆ | 17°46'42"   | -04°31'15" | -01°50'18" | 0.003  |
| 21/07/2013 00:00:00 | X | 22°57'16" ♃ | -03°10'37"  | -13°00'36" | -00°00'00" | 96.363 |
| 21/07/2013 00:00:00 | Y | 24°13'30" ♃ | 07°18'17"   | -11°51'51" | 00°00'24"  | 86.948 |
| 22/07/2013 00:00:00 | ♃ | 29°21'59" ♆ | 20°16'48"   | 00°00'00"  | 00°57'15"  | 1.016  |
| 22/07/2013 00:00:00 | ♃ | 18°32'09" ♃ | -17°38'40"  | 04°32'59"  | 15°12'15"  | 0.002  |
| 22/07/2013 00:00:00 | ♆ | 13°25'58" ♆ | 18°51'13"   | -03°55'24" | 00°06'57"  | 0.699  |

Ephemerides year 2013

|                     |    |             |             |            |            |        |
|---------------------|----|-------------|-------------|------------|------------|--------|
| 22/07/2013 00:00:00 | ♀  | 29°21'52" ♋ | 13°09'21"   | 01°33'44"  | 01°12'09"  | 1.391  |
| 22/07/2013 00:00:00 | ♂  | 05°41'20" ♉ | 23°54'57" ♁ | 00°36'11"  | 00°40'13"  | 2.421  |
| 22/07/2013 00:00:00 | ♃  | 05°49'54" ♉ | 23°07'40"   | -00°10'45" | 00°13'07"  | 6.048  |
| 22/07/2013 00:00:00 | ♅  | 04°58'27" ♌ | -10°54'06"  | 02°24'50"  | 00°01'21"  | 9.692  |
| 22/07/2013 00:00:00 | ♁  | 12°30'52" ♉ | 04°17'32"   | -00°42'26" | -00°00'12" | 19.727 |
| 22/07/2013 00:00:00 | ♆  | 04°52'25" ♉ | -10°21'05"  | -00°40'32" | -00°01'15" | 29.151 |
| 22/07/2013 00:00:00 | ♁  | 09°47'59" ♉ | -19°53'37"  | 03°11'17"  | -00°01'23" | 31.519 |
| 22/07/2013 00:00:00 | ♋  | 13°45'58" ♌ | -15°58'06"  | 00°00'00"  | -00°09'23" | 0.002  |
| 22/07/2013 00:00:00 | ♅  | 13°16'08" ♉ | -01°32'55"  | 05°26'16"  | -00°01'49" | 16.829 |
| 22/07/2013 00:00:00 | ♁  | 04°44'51" ♉ | 19°18'09"   | -04°03'01" | 00°06'41"  | 0.003  |
| 22/07/2013 00:00:00 | T♋ | 13°45'58" ♌ | -15°58'06"  | 00°00'00"  | -00°09'23" | 0.002  |
| 22/07/2013 00:00:00 | T♁ | 15°59'11" ♉ | 18°03'30"   | -04°27'01" | -01°40'35" | 0.003  |
| 22/07/2013 00:00:00 | X  | 22°57'15" ♉ | -03°10'43"  | -13°00'42" | -00°00'01" | 96.346 |
| 22/07/2013 00:00:00 | Y  | 24°13'54" ♉ | 07°18'15"   | -11°51'58" | 00°00'23"  | 86.932 |
| 23/07/2013 00:00:00 | ♁  | 00°19'14" ♋ | 20°04'44"   | 00°00'00"  | 00°57'16"  | 1.016  |
| 23/07/2013 00:00:00 | ♃  | 03°42'52" ♉ | -14°30'14"  | 04°56'55"  | 15°07'22"  | 0.002  |
| 23/07/2013 00:00:00 | ♁  | 13°35'48" ♉ | 19°02'27"   | -03°43'08" | 00°12'43"  | 0.717  |
| 23/07/2013 00:00:00 | ♀  | 00°34'00" ♌ | 12°42'57"   | 01°32'44"  | 01°12'07"  | 1.385  |
| 23/07/2013 00:00:00 | ♂  | 06°21'32" ♉ | 23°53'43" ♁ | 00°36'47"  | 00°40'10"  | 2.419  |



Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 23/07/2013 00:00:00 | ♃  | 06°03'00" ♉ | 23°07'10"  | -00°10'40" | 00°13'04"  | 6.042  |
| 23/07/2013 00:00:00 | ♅  | 04°59'51" ♋ | -10°54'49" | 02°24'34"  | 00°01'26"  | 9.708  |
| 23/07/2013 00:00:00 | ♁  | 12°30'38" ♈ | 04°17'25"  | -00°42'27" | -00°00'15" | 19.711 |
| 23/07/2013 00:00:00 | ♆  | 04°51'10" ♉ | -10°21'34" | -00°40'34" | -00°01'16" | 29.142 |
| 23/07/2013 00:00:00 | ♄  | 09°46'36" ♈ | -19°53'51" | 03°11'09"  | -00°01'23" | 31.525 |
| 23/07/2013 00:00:00 | ♁  | 13°35'55" ♈ | -15°55'06" | 00°00'00"  | -00°10'30" | 0.002  |
| 23/07/2013 00:00:00 | ♅  | 13°14'17" ♋ | -01°33'28" | 05°26'26"  | -00°01'52" | 16.819 |
| 23/07/2013 00:00:00 | ♁  | 04°51'33" ♉ | 19°17'22"  | -04°03'33" | 00°06'41"  | 0.003  |
| 23/07/2013 00:00:00 | T♁ | 13°35'55" ♈ | -15°55'06" | 00°00'00"  | -00°10'30" | 0.002  |
| 23/07/2013 00:00:00 | T♄ | 14°16'34" ♈ | 18°18'46"  | -04°22'55" | -01°47'38" | 0.003  |
| 23/07/2013 00:00:00 | X  | 22°57'13" ♈ | -03°10'50" | -13°00'48" | -00°00'02" | 96.330 |
| 23/07/2013 00:00:00 | Y  | 24°14'17" ♉ | 07°18'13"  | -11°52'06" | 00°00'22"  | 86.916 |
| 24/07/2013 00:00:00 | ♁  | 01°16'31" ♈ | 19°52'19"  | 00°00'00"  | 00°57'16"  | 1.016  |
| 24/07/2013 00:00:00 | ♃  | 18°43'27" ♈ | -10°27'02" | 05°00'02"  | 14°52'12"  | 0.002  |
| 24/07/2013 00:00:00 | ♁  | 13°51'27" ♈ | 19°13'50"  | -03°30'07" | 00°18'35"  | 0.736  |
| 24/07/2013 00:00:00 | ♁  | 01°46'06" ♈ | 12°16'13"  | 01°31'39"  | 01°12'04"  | 1.379  |
| 24/07/2013 00:00:00 | ♂  | 07°01'41" ♈ | 23°52'16"  | 00°37'23"  | 00°40'07"  | 2.417  |
| 24/07/2013 00:00:00 | ♃  | 06°16'03" ♈ | 23°06'39"  | -00°10'35" | 00°13'02"  | 6.036  |
| 24/07/2013 00:00:00 | ♅  | 05°01'20" ♋ | -10°55'34" | 02°24'18"  | 00°01'32"  | 9.725  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 24/07/2013 00:00:00 | ♃  | 12°30'21" ♏ | 04°17'17"  | -00°42'29" | -00°00'18" | 19.695 |
| 24/07/2013 00:00:00 | ♃  | 04°49'53" ♏ | -10°22'03" | -00°40'35" | -00°01'17" | 29.132 |
| 24/07/2013 00:00:00 | ♃  | 09°45'13" ♏ | -19°54'06" | 03°11'01"  | -00°01'22" | 31.532 |
| 24/07/2013 00:00:00 | ♃  | 13°25'22" ♏ | -15°51'56" | 00°00'00"  | -00°10'22" | 0.002  |
| 24/07/2013 00:00:00 | ♃  | 13°12'23" ♏ | -01°34'02" | 05°26'36"  | -00°01'54" | 16.809 |
| 24/07/2013 00:00:00 | ♃  | 04°58'14" ♏ | 19°16'35"  | -04°04'06" | 00°06'41"  | 0.003  |
| 24/07/2013 00:00:00 | T♃ | 13°25'22" ♏ | -15°51'56" | 00°00'00"  | -00°10'22" | 0.002  |
| 24/07/2013 00:00:00 | T♃ | 12°18'41" ♏ | 18°34'50"  | -04°18'09" | -02°09'58" | 0.003  |
| 24/07/2013 00:00:00 | X  | 22°57'10" ♏ | -03°10'56" | -13°00'54" | -00°00'02" | 96.313 |
| 24/07/2013 00:00:00 | Y  | 24°14'39" ♏ | 07°18'11"  | -11°52'14" | 00°00'22"  | 86.900 |
| 25/07/2013 00:00:00 | ♃  | 02°13'48" ♏ | 19°39'35"  | 00°00'00"  | 00°57'17"  | 1.016  |
| 25/07/2013 00:00:00 | ♃  | 03°24'33" ♏ | -05°51'02" | 04°43'09"  | 14°28'51"  | 0.002  |
| 25/07/2013 00:00:00 | ♃  | 14°12'59" ♏ | 19°25'13"  | -03°16'28" | 00°24'29"  | 0.756  |
| 25/07/2013 00:00:00 | ♃  | 02°58'10" ♏ | 11°49'11"  | 01°30'30"  | 01°12'02"  | 1.373  |
| 25/07/2013 00:00:00 | ♃  | 07°41'46" ♏ | 23°50'38"  | 00°37'59"  | 00°40'04"  | 2.415  |
| 25/07/2013 00:00:00 | ♃  | 06°29'04" ♏ | 23°06'07"  | -00°10'29" | 00°12'59"  | 6.029  |
| 25/07/2013 00:00:00 | ♃  | 05°02'56" ♏ | -10°56'21" | 02°24'02"  | 00°01'38"  | 9.741  |
| 25/07/2013 00:00:00 | ♃  | 12°30'02" ♏ | 04°17'08"  | -00°42'31" | -00°00'21" | 19.679 |
| 25/07/2013 00:00:00 | ♃  | 04°48'34" ♏ | -10°22'33" | -00°40'37" | -00°01'18" | 29.123 |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 25/07/2013 00:00:00 | ♁ | 09°43'50" ♏ | -19°54'20" | 03°10'52"  | -00°01'22" | 31.539 |
| 25/07/2013 00:00:00 | ♁ | 13°15'35" ♏ | -15°48'59" | 00°00'00"  | -00°09'02" | 0.002  |
| 25/07/2013 00:00:00 | ♁ | 13°10'27" ♏ | -01°34'37" | 05°26'46"  | -00°01'57" | 16.799 |
| 25/07/2013 00:00:00 | ♁ | 05°04'56" ♏ | 19°15'48"  | -04°04'38" | 00°06'41"  | 0.003  |
| 25/07/2013 00:00:00 | ♁ | 13°15'35" ♏ | -15°48'59" | 00°00'00"  | -00°09'02" | 0.002  |
| 25/07/2013 00:00:00 | ♁ | 09°55'18" ♏ | 18°52'27"  | -04°12'06" | -02°36'06" | 0.003  |
| 25/07/2013 00:00:00 | X | 22°57'07" ♏ | -03°11'03" | -13°01'01" | -00°00'03" | 96.297 |
| 25/07/2013 00:00:00 | Y | 24°15'01" ♏ | 07°18'08"  | -11°52'21" | 00°00'21"  | 86.884 |
| 26/07/2013 00:00:00 | ♁ | 03°11'06" ♏ | 19°26'31"  | 00°00'00"  | 00°57'18"  | 1.016  |
| 26/07/2013 00:00:00 | ♁ | 17°39'31" ♏ | -01°03'17" | 04°08'53"  | 14°00'35"  | 0.002  |
| 26/07/2013 00:00:00 | ♁ | 14°40'26" ♏ | 19°36'26"  | -03°02'18" | 00°30'25"  | 0.777  |
| 26/07/2013 00:00:00 | ♁ | 04°10'12" ♏ | 11°21'52"  | 01°29'15"  | 01°12'00"  | 1.367  |
| 26/07/2013 00:00:00 | ♁ | 08°21'49" ♏ | 23°48'48"  | 00°38'34"  | 00°40'01"  | 2.413  |
| 26/07/2013 00:00:00 | ♁ | 06°42'02" ♏ | 23°05'33"  | -00°10'24" | 00°12'57"  | 6.023  |
| 26/07/2013 00:00:00 | ♁ | 05°04'37" ♏ | -10°57'09" | 02°23'46"  | 00°01'43"  | 9.758  |
| 26/07/2013 00:00:00 | ♁ | 12°29'39" ♏ | 04°16'58"  | -00°42'33" | -00°00'23" | 19.664 |
| 26/07/2013 00:00:00 | ♁ | 04°47'15" ♏ | -10°23'03" | -00°40'38" | -00°01'20" | 29.114 |
| 26/07/2013 00:00:00 | ♁ | 09°42'29" ♏ | -19°54'34" | 03°10'44"  | -00°01'21" | 31.546 |
| 26/07/2013 00:00:00 | ♁ | 13°07'34" ♏ | -15°46'34" | 00°00'00"  | -00°06'52" | 0.002  |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 26/07/2013 00:00:00 | ♄ | 13°08'28" ♏ | -01°35'14" | 05°26'55"  | -00°01'59" | 16.789 |
| 26/07/2013 00:00:00 | ♁ | 05°11'37" ♉ | 19°15'00"  | -04°05'11" | 00°06'41"  | 0.003  |
| 26/07/2013 00:00:00 | ♁ | 13°07'34" ♏ | -15°46'34" | 00°00'00"  | -00°06'52" | 0.002  |
| 26/07/2013 00:00:00 | ♁ | 07°10'40" ♉ | 19°10'12"  | -04°04'36" | -02°49'48" | 0.003  |
| 26/07/2013 00:00:00 | X | 22°57'03" ♏ | -03°11'10" | -13°01'07" | -00°00'04" | 96.280 |
| 26/07/2013 00:00:00 | Y | 24°15'22" ♉ | 07°18'06"  | -11°52'29" | 00°00'20"  | 86.868 |
| 27/07/2013 00:00:00 | ♁ | 04°08'25" ♉ | 19°13'08"  | 00°00'00"  | 00°57'19"  | 1.016  |
| 27/07/2013 00:00:00 | ♁ | 01°25'13" ♏ | 03°38'20"  | 03°21'03"  | 13°30'50"  | 0.003  |
| 27/07/2013 00:00:00 | ♁ | 15°13'49" ♉ | 19°47'18"  | -02°47'42" | 00°36'20"  | 0.799  |
| 27/07/2013 00:00:00 | ♁ | 05°22'11" ♏ | 10°54'15"  | 01°27'56"  | 01°11'58"  | 1.361  |
| 27/07/2013 00:00:00 | ♁ | 09°01'50" ♉ | 23°46'46"  | 00°39'10"  | 00°39'58"  | 2.410  |
| 27/07/2013 00:00:00 | ♁ | 06°54'58" ♉ | 23°04'59"  | -00°10'19" | 00°12'54"  | 6.016  |
| 27/07/2013 00:00:00 | ♁ | 05°06'23" ♏ | -10°58'00" | 02°23'30"  | 00°01'49"  | 9.774  |
| 27/07/2013 00:00:00 | ♁ | 12°29'14" ♏ | 04°16'46"  | -00°42'35" | -00°00'26" | 19.648 |
| 27/07/2013 00:00:00 | ♁ | 04°45'54" ♏ | -10°23'34" | -00°40'39" | -00°01'21" | 29.106 |
| 27/07/2013 00:00:00 | ♁ | 09°41'08" ♏ | -19°54'49" | 03°10'35"  | -00°01'20" | 31.554 |
| 27/07/2013 00:00:00 | ♁ | 13°01'56" ♏ | -15°44'52" | 00°00'00"  | -00°04'22" | 0.002  |
| 27/07/2013 00:00:00 | ♁ | 13°06'27" ♏ | -01°35'51" | 05°27'04"  | -00°02'02" | 16.779 |
| 27/07/2013 00:00:00 | ♁ | 05°18'19" ♉ | 19°14'13"  | -04°05'43" | 00°06'41"  | 0.003  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 27/07/2013 00:00:00 | T♄ | 13°01'56" ♍ | -15°44'52" | 00°00'00"  | -00°04'22" | 0.002  |
| 27/07/2013 00:00:00 | T♄ | 04°23'56" ♉ | 19°25'28"  | -03°56'23" | -02°39'10" | 0.003  |
| 27/07/2013 00:00:00 | X  | 22°56'59" ♏ | -03°11'18" | -13°01'13" | -00°00'04" | 96.264 |
| 27/07/2013 00:00:00 | Y  | 24°15'42" ♄ | 07°18'03"  | -11°52'37" | 00°00'20"  | 86.851 |
| 28/07/2013 00:00:00 | ☉  | 05°05'44" ♋ | 18°59'25"  | 00°00'00"  | 00°57'20"  | 1.015  |
| 28/07/2013 00:00:00 | ☾  | 14°41'42" ♏ | 07°59'55"  | 02°23'43"  | 13°02'34"  | 0.003  |
| 28/07/2013 00:00:00 | ♁  | 15°53'06" ♉ | 19°57'41"  | -02°32'46" | 00°42'13"  | 0.821  |
| 28/07/2013 00:00:00 | ♂  | 06°34'08" ♎ | 10°26'22"  | 01°26'33"  | 01°11'56"  | 1.355  |
| 28/07/2013 00:00:00 | ♂  | 09°41'47" ♉ | 23°44'31"  | 00°39'45"  | 00°39'56"  | 2.408  |
| 28/07/2013 00:00:00 | ♂  | 07°07'51" ♉ | 23°04'23"  | -00°10'14" | 00°12'51"  | 6.009  |
| 28/07/2013 00:00:00 | ♃  | 05°08'15" ♎ | -10°58'52" | 02°23'14"  | 00°01'55"  | 9.791  |
| 28/07/2013 00:00:00 | ♃  | 12°28'46" ♏ | 04°16'33"  | -00°42'37" | -00°00'29" | 19.632 |
| 28/07/2013 00:00:00 | ♃  | 04°44'33" ♏ | -10°24'05" | -00°40'41" | -00°01'22" | 29.097 |
| 28/07/2013 00:00:00 | ♃  | 09°39'48" ♏ | -19°55'03" | 03°10'27"  | -00°01'19" | 31.561 |
| 28/07/2013 00:00:00 | ♁  | 12°58'44" ♎ | -15°43'54" | 00°00'00"  | -00°02'05" | 0.002  |
| 28/07/2013 00:00:00 | ♁  | 13°04'23" ♏ | -01°36'30" | 05°27'13"  | -00°02'04" | 16.770 |
| 28/07/2013 00:00:00 | ♁  | 05°25'01" ♉ | 19°13'25"  | -04°06'15" | 00°06'41"  | 0.003  |
| 28/07/2013 00:00:00 | T♄ | 12°58'44" ♎ | -15°43'54" | 00°00'00"  | -00°02'05" | 0.002  |
| 28/07/2013 00:00:00 | T♄ | 02°00'34" ♉ | 19°36'25"  | -03°48'49" | -02°04'08" | 0.003  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 28/07/2013 00:00:00 | X  | 22°56'53" ♀ | -03°11'25" | -13°01'19" | -00°00'05" | 96.248 |
| 28/07/2013 00:00:00 | Y  | 24°16'02" ♂ | 07°18'00"  | -11°52'44" | 00°00'19"  | 86.835 |
| 29/07/2013 00:00:00 | ☉  | 06°03'05" ♀ | 18°45'24"  | -00°00'00" | 00°57'21"  | 1.015  |
| 29/07/2013 00:00:00 | ☾  | 27°31'35" ♀ | 11°50'54"  | 01°20'48"  | 12°37'53"  | 0.003  |
| 29/07/2013 00:00:00 | ♁  | 16°38'14" ♀ | 20°07'23"  | -02°17'37" | 00°48'03"  | 0.844  |
| 29/07/2013 00:00:00 | ♂  | 07°46'03" ♀ | 09°58'13"  | 01°25'04"  | 01°11'54"  | 1.349  |
| 29/07/2013 00:00:00 | ♄  | 10°21'42" ♀ | 23°42'06"  | 00°40'21"  | 00°39'53"  | 2.406  |
| 29/07/2013 00:00:00 | ♃  | 07°20'41" ♀ | 23°03'46"  | -00°10'09" | 00°12'48"  | 6.002  |
| 29/07/2013 00:00:00 | ♅  | 05°10'13" ♀ | -10°59'46" | 02°22'58"  | 00°02'00"  | 9.808  |
| 29/07/2013 00:00:00 | ♆  | 12°28'15" ♀ | 04°16'20"  | -00°42'38" | -00°00'32" | 19.617 |
| 29/07/2013 00:00:00 | ♁  | 04°43'10" ♀ | -10°24'37" | -00°40'42" | -00°01'23" | 29.089 |
| 29/07/2013 00:00:00 | ♂  | 09°38'28" ♀ | -19°55'17" | 03°10'18"  | -00°01'18" | 31.569 |
| 29/07/2013 00:00:00 | ♁  | 12°57'30" ♀ | -15°43'32" | 00°00'00"  | -00°00'31" | 0.002  |
| 29/07/2013 00:00:00 | ♂  | 13°02'17" ♀ | -01°37'10" | 05°27'21"  | -00°02'06" | 16.761 |
| 29/07/2013 00:00:00 | ♁  | 05°31'42" ♀ | 19°12'37"  | -04°06'47" | 00°06'41"  | 0.003  |
| 29/07/2013 00:00:00 | T♁ | 12°57'30" ♀ | -15°43'32" | 00°00'00"  | -00°00'31" | 0.002  |
| 29/07/2013 00:00:00 | T♂ | 00°20'17" ♀ | 19°42'54"  | -03°43'12" | -01°15'15" | 0.003  |
| 29/07/2013 00:00:00 | X  | 22°56'48" ♀ | -03°11'33" | -13°01'25" | -00°00'06" | 96.232 |
| 29/07/2013 00:00:00 | Y  | 24°16'21" ♂ | 07°17'57"  | -11°52'52" | 00°00'18"  | 86.818 |

Ephemerides year 2013

|                     |   |           |   |            |            |            |        |
|---------------------|---|-----------|---|------------|------------|------------|--------|
| 30/07/2013 00:00:00 | ♁ | 07°00'27" | ♏ | 18°31'04"  | -00°00'00" | 00°57'22"  | 1.015  |
| 30/07/2013 00:00:00 | ♃ | 09°59'04" | ♏ | 15°03'22"  | 00°15'44"  | 12°17'57"  | 0.003  |
| 30/07/2013 00:00:00 | ♃ | 17°29'11" | ♁ | 20°16'14"  | -02°02'19" | 00°53'49"  | 0.868  |
| 30/07/2013 00:00:00 | ♀ | 08°57'57" | ♏ | 09°29'49"  | 01°23'31"  | 01°11'51"  | 1.343  |
| 30/07/2013 00:00:00 | ♂ | 11°01'33" | ♁ | 23°39'28"  | 00°40'56"  | 00°39'50"  | 2.403  |
| 30/07/2013 00:00:00 | ♃ | 07°33'29" | ♁ | 23°03'08"  | -00°10'04" | 00°12'46"  | 5.995  |
| 30/07/2013 00:00:00 | ♃ | 05°12'17" | ♏ | -11°00'42" | 02°22'42"  | 00°02'06"  | 9.824  |
| 30/07/2013 00:00:00 | ♃ | 12°27'41" | ♁ | 04°16'05"  | -00°42'40" | -00°00'35" | 19.602 |
| 30/07/2013 00:00:00 | ♃ | 04°41'46" | ♁ | -10°25'09" | -00°40'43" | -00°01'24" | 29.081 |
| 30/07/2013 00:00:00 | ♁ | 09°37'10" | ♁ | -19°55'32" | 03°10'09"  | -00°01'17" | 31.578 |
| 30/07/2013 00:00:00 | ♏ | 12°57'21" | ♏ | -15°43'29" | 00°00'00"  | 00°00'02"  | 0.002  |
| 30/07/2013 00:00:00 | ♃ | 13°00'09" | ♁ | -01°37'51" | 05°27'29"  | -00°02'09" | 16.752 |
| 30/07/2013 00:00:00 | ♃ | 05°38'24" | ♁ | 19°11'48"  | -04°07'19" | 00°06'41"  | 0.003  |
| 30/07/2013 00:00:00 | ♏ | 12°57'21" | ♏ | -15°43'29" | 00°00'00"  | 00°00'02"  | 0.002  |
| 30/07/2013 00:00:00 | ♁ | 29°30'14" | ♁ | 19°45'49"  | -03°40'15" | -00°25'42" | 0.003  |
| 30/07/2013 00:00:00 | X | 22°56'41" | ♁ | -03°11'41" | -13°01'31" | -00°00'06" | 96.215 |
| 30/07/2013 00:00:00 | Y | 24°16'40" | ♏ | 07°17'53"  | -11°53'00" | 00°00'18"  | 86.802 |
| 31/07/2013 00:00:00 | ♁ | 07°57'50" | ♏ | 18°16'25"  | -00°00'00" | 00°57'23"  | 1.015  |
| 31/07/2013 00:00:00 | ♃ | 22°09'16" | ♏ | 17°31'20"  | -00°48'32" | 12°03'18"  | 0.003  |

Ephemerides year 2013

|                     |   |             |             |            |            |        |
|---------------------|---|-------------|-------------|------------|------------|--------|
| 31/07/2013 00:00:00 | ♀ | 18°25'51" ♉ | 20°24'03"   | -01°46'58" | 00°59'29"  | 0.892  |
| 31/07/2013 00:00:00 | ♀ | 10°09'47" ♉ | 09°01'11"   | 01°21'53"  | 01°11'49"  | 1.337  |
| 31/07/2013 00:00:00 | ♂ | 11°41'23" ♉ | 23°36'39" ♀ | 00°41'32"  | 00°39'47"  | 2.401  |
| 31/07/2013 00:00:00 | ♃ | 07°46'14" ♉ | 23°02'29"   | -00°09'59" | 00°12'43"  | 5.988  |
| 31/07/2013 00:00:00 | ♅ | 05°14'26" ♉ | -11°01'39"  | 02°22'27"  | 00°02'12"  | 9.841  |
| 31/07/2013 00:00:00 | ♁ | 12°27'05" ♉ | 04°15'49"   | -00°42'42" | -00°00'37" | 19.586 |
| 31/07/2013 00:00:00 | ♃ | 04°40'22" ♉ | -10°25'41"  | -00°40'45" | -00°01'25" | 29.074 |
| 31/07/2013 00:00:00 | ♁ | 09°35'53" ♉ | -19°55'46"  | 03°10'00"  | -00°01'16" | 31.586 |
| 31/07/2013 00:00:00 | ♁ | 12°57'12" ♉ | -15°43'26"  | 00°00'00"  | -00°00'32" | 0.002  |
| 31/07/2013 00:00:00 | ♃ | 12°57'59" ♉ | -01°38'33"  | 05°27'37"  | -00°02'11" | 16.743 |
| 31/07/2013 00:00:00 | ♁ | 05°45'06" ♉ | 19°11'00"   | -04°07'51" | 00°06'41"  | 0.003  |
| 31/07/2013 00:00:00 | ♁ | 12°57'12" ♉ | -15°43'26"  | 00°00'00"  | -00°00'32" | 0.002  |
| 31/07/2013 00:00:00 | ♁ | 29°25'50" ♉ | 19°46'11"   | -03°39'51" | 00°14'55"  | 0.003  |
| 31/07/2013 00:00:00 | X | 22°56'34" ♉ | -03°11'49"  | -13°01'37" | -00°00'07" | 96.199 |
| 31/07/2013 00:00:00 | Y | 24°16'58" ♉ | 07°17'50"   | -11°53'08" | 00°00'17"  | 86.785 |
| 01/08/2013 00:00:00 | ♁ | 08°55'14" ♉ | 18°01'29"   | -00°00'00" | 00°57'24"  | 1.015  |
| 01/08/2013 00:00:00 | ♁ | 04°07'26" ♉ | 19°10'22"   | -01°49'34" | 11°53'52"  | 0.003  |
| 01/08/2013 00:00:00 | ♀ | 19°28'08" ♉ | 20°30'38"   | -01°31'39" | 01°05'03"  | 0.917  |
| 01/08/2013 00:00:00 | ♀ | 11°21'36" ♉ | 08°32'20"   | 01°20'11"  | 01°11'47"  | 1.331  |



Ephemerides year 2013

|                     |   |             |             |            |            |        |
|---------------------|---|-------------|-------------|------------|------------|--------|
| 01/08/2013 00:00:00 | ♂ | 12°21'09" ☾ | 23°33'39" ♁ | 00°42'07"  | 00°39'44"  | 2.398  |
| 01/08/2013 00:00:00 | ♃ | 07°58'56" ☾ | 23°01'49"   | -00°09'54" | 00°12'40"  | 5.980  |
| 01/08/2013 00:00:00 | ♅ | 05°16'41" ♃ | -11°02'38"  | 02°22'11"  | 00°02'17"  | 9.857  |
| 01/08/2013 00:00:00 | ♁ | 12°26'25" ♀ | 04°15'32"   | -00°42'44" | -00°00'40" | 19.571 |
| 01/08/2013 00:00:00 | ♆ | 04°38'56" ♃ | -10°26'13"  | -00°40'46" | -00°01'26" | 29.066 |
| 01/08/2013 00:00:00 | ♁ | 09°34'36" ♃ | -19°56'01"  | 03°09'51"  | -00°01'16" | 31.595 |
| 01/08/2013 00:00:00 | ♁ | 12°55'56" ♃ | -15°43'03"  | 00°00'00"  | -00°02'09" | 0.002  |
| 01/08/2013 00:00:00 | ♃ | 12°55'47" ♃ | -01°39'16"  | 05°27'45"  | -00°02'13" | 16.734 |
| 01/08/2013 00:00:00 | ♁ | 05°51'47" ☾ | 19°10'11"   | -04°08'22" | 00°06'41"  | 0.003  |
| 01/08/2013 00:00:00 | ♁ | 12°55'56" ♃ | -15°43'03"  | 00°00'00"  | -00°02'09" | 0.002  |
| 01/08/2013 00:00:00 | ♁ | 29°55'38" ♀ | 19°44'41"   | -03°41'26" | 00°42'21"  | 0.003  |
| 01/08/2013 00:00:00 | X | 22°56'27" ♀ | -03°11'57"  | -13°01'43" | -00°00'07" | 96.183 |
| 01/08/2013 00:00:00 | Y | 24°17'15" ♂ | 07°17'46"   | -11°53'16" | 00°00'16"  | 86.768 |
| 02/08/2013 00:00:00 | ♁ | 09°52'39" ♁ | 17°46'15"   | -00°00'00" | 00°57'25"  | 1.015  |
| 02/08/2013 00:00:00 | ♁ | 15°58'37" ♀ | 19°57'34"   | -02°45'09" | 11°49'14"  | 0.003  |
| 02/08/2013 00:00:00 | ♁ | 20°35'55" ☾ | 20°35'49"   | -01°16'27" | 01°10'30"  | 0.943  |
| 02/08/2013 00:00:00 | ♀ | 12°33'23" ♃ | 08°03'16"   | 01°18'24"  | 01°11'45"  | 1.324  |
| 02/08/2013 00:00:00 | ♂ | 13°00'52" ☾ | 23°30'27" ♁ | 00°42'42"  | 00°39'42"  | 2.396  |
| 02/08/2013 00:00:00 | ♃ | 08°11'34" ☾ | 23°01'08"   | -00°09'49" | 00°12'37"  | 5.972  |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 02/08/2013 00:00:00 | ♃ | 05°19'02" ♍ | -11°03'40" | 02°21'55"  | 00°02'23"  | 9.874  |
| 02/08/2013 00:00:00 | ♅ | 12°25'43" ♏ | 04°15'14"  | -00°42'45" | -00°00'43" | 19.556 |
| 02/08/2013 00:00:00 | ♆ | 04°37'30" ♏ | -10°26'46" | -00°40'47" | -00°01'27" | 29.059 |
| 02/08/2013 00:00:00 | ♁ | 09°33'21" ♎ | -19°56'15" | 03°09'42"  | -00°01'15" | 31.604 |
| 02/08/2013 00:00:00 | ♄ | 12°52'37" ♏ | -15°42'03" | 00°00'00"  | -00°04'32" | 0.002  |
| 02/08/2013 00:00:00 | ♃ | 12°53'32" ♏ | -01°40'00" | 05°27'53"  | -00°02'15" | 16.726 |
| 02/08/2013 00:00:00 | ♁ | 05°58'29" ♎ | 19°09'22"  | -04°08'54" | 00°06'41"  | 0.003  |
| 02/08/2013 00:00:00 | ♄ | 12°52'37" ♏ | -15°42'03" | 00°00'00"  | -00°04'32" | 0.002  |
| 02/08/2013 00:00:00 | ♁ | 00°46'14" ♎ | 19°41'45"  | -03°44'14" | 00°56'54"  | 0.003  |
| 02/08/2013 00:00:00 | X | 22°56'19" ♏ | -03°12'06" | -13°01'49" | -00°00'08" | 96.167 |
| 02/08/2013 00:00:00 | Y | 24°17'31" ♏ | 07°17'42"  | -11°53'24" | 00°00'16"  | 86.751 |
| 03/08/2013 00:00:00 | ♁ | 10°50'05" ♏ | 17°30'44"  | -00°00'00" | 00°57'26"  | 1.015  |
| 03/08/2013 00:00:00 | ♃ | 27°47'19" ♏ | 19°51'42"  | -03°33'20" | 11°48'46"  | 0.003  |
| 03/08/2013 00:00:00 | ♁ | 21°49'05" ♎ | 20°39'24"  | -01°01'27" | 01°15'47"  | 0.968  |
| 03/08/2013 00:00:00 | ♆ | 13°45'07" ♏ | 07°33'59"  | 01°16'32"  | 01°11'43"  | 1.318  |
| 03/08/2013 00:00:00 | ♂ | 13°40'33" ♎ | 23°27'03"  | 00°43'17"  | 00°39'39"  | 2.393  |
| 03/08/2013 00:00:00 | ♁ | 08°24'10" ♎ | 23°00'26"  | -00°09'43" | 00°12'33"  | 5.964  |
| 03/08/2013 00:00:00 | ♃ | 05°21'28" ♏ | -11°04'42" | 02°21'40"  | 00°02'28"  | 9.891  |
| 03/08/2013 00:00:00 | ♅ | 12°24'58" ♏ | 04°14'55"  | -00°42'47" | -00°00'46" | 19.542 |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 03/08/2013 00:00:00 | ♁  | 04°36'02" ♈ | -10°27'19" | -00°40'48" | -00°01'27" | 29.052 |
| 03/08/2013 00:00:00 | ♁  | 09°32'06" ♈ | -19°56'29" | 03°09'32"  | -00°01'14" | 31.613 |
| 03/08/2013 00:00:00 | ♁  | 12°46'42" ♎ | -15°40'16" | 00°00'00"  | -00°07'20" | 0.002  |
| 03/08/2013 00:00:00 | ♁  | 12°51'15" ♈ | -01°40'45" | 05°28'00"  | -00°02'17" | 16.718 |
| 03/08/2013 00:00:00 | ♁  | 06°05'11" ♉ | 19°08'33"  | -04°09'25" | 00°06'41"  | 0.003  |
| 03/08/2013 00:00:00 | T♁ | 12°46'42" ♎ | -15°40'16" | 00°00'00"  | -00°07'20" | 0.002  |
| 03/08/2013 00:00:00 | T♁ | 01°46'28" ♉ | 19°37'49"  | -03°47'36" | 01°02'38"  | 0.003  |
| 03/08/2013 00:00:00 | X  | 22°56'10" ♈ | -03°12'14" | -13°01'55" | -00°00'09" | 96.151 |
| 03/08/2013 00:00:00 | Y  | 24°17'47" ♉ | 07°17'38"  | -11°53'32" | 00°00'15"  | 86.734 |
| 04/08/2013 00:00:00 | ♁  | 11°47'32" ♉ | 17°14'55"  | -00°00'00" | 00°57'27"  | 1.015  |
| 04/08/2013 00:00:00 | ♁  | 09°37'17" ♉ | 18°53'31"  | -04°12'18" | 11°51'40"  | 0.003  |
| 04/08/2013 00:00:00 | ♁  | 23°07'28" ♉ | 20°41'12"  | -00°46'43" | 01°20'55"  | 0.994  |
| 04/08/2013 00:00:00 | ♁  | 14°56'49" ♎ | 07°04'31"  | 01°14'36"  | 01°11'40"  | 1.312  |
| 04/08/2013 00:00:00 | ♁  | 14°20'11" ♉ | 23°23'29"  | 00°43'52"  | 00°39'36"  | 2.390  |
| 04/08/2013 00:00:00 | ♁  | 08°36'42" ♉ | 22°59'43"  | -00°09'38" | 00°12'30"  | 5.956  |
| 04/08/2013 00:00:00 | ♁  | 05°23'59" ♎ | -11°05'47" | 02°21'24"  | 00°02'34"  | 9.907  |
| 04/08/2013 00:00:00 | ♁  | 12°24'11" ♈ | 04°14'35"  | -00°42'49" | -00°00'48" | 19.527 |
| 04/08/2013 00:00:00 | ♁  | 04°34'34" ♈ | -10°27'53" | -00°40'49" | -00°01'28" | 29.046 |
| 04/08/2013 00:00:00 | ♁  | 09°30'53" ♈ | -19°56'44" | 03°09'23"  | -00°01'13" | 31.623 |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 04/08/2013 00:00:00 | ♏  | 12°37'59" ♎ | -15°37'37" | 00°00'00"  | -00°10'03" | 0.002  |
| 04/08/2013 00:00:00 | ♋  | 12°48'56" ♏ | -01°41'31" | 05°28'07"  | -00°02'19" | 16.711 |
| 04/08/2013 00:00:00 | ♌  | 06°11'53" ♎ | 19°07'44"  | -04°09'57" | 00°06'41"  | 0.003  |
| 04/08/2013 00:00:00 | T♏ | 12°37'59" ♎ | -15°37'37" | 00°00'00"  | -00°10'03" | 0.002  |
| 04/08/2013 00:00:00 | T♌ | 02°51'03" ♎ | 19°33'03"  | -03°51'17" | 01°07'06"  | 0.003  |
| 04/08/2013 00:00:00 | X  | 22°56'00" ♏ | -03°12'23" | -13°02'01" | -00°00'09" | 96.135 |
| 04/08/2013 00:00:00 | Y  | 24°18'03" ♏ | 07°17'33"  | -11°53'40" | 00°00'14"  | 86.717 |
| 05/08/2013 00:00:00 | ♏  | 12°45'01" ♏ | 16°58'50"  | -00°00'00" | 00°57'28"  | 1.014  |
| 05/08/2013 00:00:00 | ♎  | 21°31'30" ♎ | 17°05'46"  | -04°40'27" | 11°57'07"  | 0.003  |
| 05/08/2013 00:00:00 | ♎  | 24°30'52" ♎ | 20°41'02"  | -00°32'21" | 01°25'51"  | 1.019  |
| 05/08/2013 00:00:00 | ♎  | 16°08'28" ♎ | 06°34'53"  | 01°12'35"  | 01°11'38"  | 1.306  |
| 05/08/2013 00:00:00 | ♏  | 14°59'46" ♎ | 23°19'43"  | 00°44'27"  | 00°39'33"  | 2.388  |
| 05/08/2013 00:00:00 | ♏  | 08°49'11" ♎ | 22°58'59"  | -00°09'33" | 00°12'27"  | 5.948  |
| 05/08/2013 00:00:00 | ♏  | 05°26'36" ♎ | -11°06'53" | 02°21'09"  | 00°02'39"  | 9.924  |
| 05/08/2013 00:00:00 | ♏  | 12°23'20" ♏ | 04°14'14"  | -00°42'50" | -00°00'51" | 19.512 |
| 05/08/2013 00:00:00 | ♎  | 04°33'05" ♏ | -10°28'26" | -00°40'51" | -00°01'29" | 29.040 |
| 05/08/2013 00:00:00 | ♎  | 09°29'40" ♏ | -19°56'58" | 03°09'14"  | -00°01'11" | 31.633 |
| 05/08/2013 00:00:00 | ♏  | 12°26'46" ♎ | -15°34'12" | 00°00'00"  | -00°12'15" | 0.002  |
| 05/08/2013 00:00:00 | ♋  | 12°46'36" ♏ | -01°42'18" | 05°28'13"  | -00°02'21" | 16.703 |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 05/08/2013 00:00:00 | ☾ | 06°18'35" ☊ | 19°06'55"  | -04°10'28" | 00°06'41"  | 0.003  |
| 05/08/2013 00:00:00 | ♁ | 12°26'46" ♎ | -15°34'12" | 00°00'00"  | -00°12'15" | 0.002  |
| 05/08/2013 00:00:00 | ♁ | 04°03'35" ☊ | 19°26'59"  | -03°55'30" | 01°20'12"  | 0.003  |
| 05/08/2013 00:00:00 | X | 22°55'50" ♄ | -03°12'32" | -13°02'07" | -00°00'10" | 96.120 |
| 05/08/2013 00:00:00 | Y | 24°18'17" ☿ | 07°17'29"  | -11°53'48" | 00°00'14"  | 86.700 |
| 06/08/2013 00:00:00 | ☉ | 13°42'30" ♋ | 16°42'28"  | -00°00'00" | 00°57'29"  | 1.014  |
| 06/08/2013 00:00:00 | ☾ | 03°32'08" ♋ | 14°33'08"  | -04°56'26" | 12°04'21"  | 0.003  |
| 06/08/2013 00:00:00 | ♀ | 25°59'05" ☊ | 20°38'45"  | -00°18'25" | 01°30'33"  | 1.045  |
| 06/08/2013 00:00:00 | ♀ | 17°20'05" ♎ | 06°05'04"  | 01°10'30"  | 01°11'35"  | 1.299  |
| 06/08/2013 00:00:00 | ♂ | 15°39'18" ☊ | 23°15'46"  | 00°45'02"  | 00°39'30"  | 2.385  |
| 06/08/2013 00:00:00 | ♃ | 09°01'37" ☊ | 22°58'14"  | -00°09'28" | 00°12'23"  | 5.939  |
| 06/08/2013 00:00:00 | ♃ | 05°29'18" ♎ | -11°08'01" | 02°20'54"  | 00°02'44"  | 9.940  |
| 06/08/2013 00:00:00 | ♃ | 12°22'27" ♄ | 04°13'52"  | -00°42'52" | -00°00'54" | 19.498 |
| 06/08/2013 00:00:00 | ♃ | 04°31'34" ♃ | -10°29'00" | -00°40'52" | -00°01'30" | 29.034 |
| 06/08/2013 00:00:00 | ♃ | 09°28'29" ♃ | -19°57'13" | 03°09'04"  | -00°01'10" | 31.643 |
| 06/08/2013 00:00:00 | ♁ | 12°13'46" ♎ | -15°30'14" | 00°00'00"  | -00°13'33" | 0.003  |
| 06/08/2013 00:00:00 | ♃ | 12°44'13" ♃ | -01°43'07" | 05°28'19"  | -00°02'23" | 16.696 |
| 06/08/2013 00:00:00 | ☾ | 06°25'17" ☊ | 19°06'05"  | -04°10'59" | 00°06'41"  | 0.003  |
| 06/08/2013 00:00:00 | ♁ | 12°13'46" ♎ | -15°30'14" | 00°00'00"  | -00°13'33" | 0.003  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 06/08/2013 00:00:00 | T♄ | 05°37'15" ☾ | 19°18'15"  | -04°00'55" | 01°50'22"  | 0.003  |
| 06/08/2013 00:00:00 | X  | 22°55'40" ♀ | -03°12'41" | -13°02'12" | -00°00'10" | 96.104 |
| 06/08/2013 00:00:00 | Y  | 24°18'31" ☾ | 07°17'24"  | -11°53'57" | 00°00'13"  | 86.683 |
| 07/08/2013 00:00:00 | ☉  | 14°40'00" ♁ | 16°25'50"  | -00°00'00" | 00°57'30"  | 1.014  |
| 07/08/2013 00:00:00 | ☾  | 15°40'36" ♁ | 11°21'59"  | -04°59'11" | 12°12'44"  | 0.003  |
| 07/08/2013 00:00:00 | ♀  | 27°31'53" ☾ | 20°34'11"  | -00°04'58" | 01°35'00"  | 1.070  |
| 07/08/2013 00:00:00 | ♀  | 18°31'40" ♃ | 05°35'06"  | 01°08'20"  | 01°11'33"  | 1.293  |
| 07/08/2013 00:00:00 | ♂  | 16°18'47" ☾ | 23°11'39"  | 00°45'37"  | 00°39'27"  | 2.382  |
| 07/08/2013 00:00:00 | ♃  | 09°13'59" ☾ | 22°57'28"  | -00°09'23" | 00°12'20"  | 5.931  |
| 07/08/2013 00:00:00 | ♃  | 05°32'06" ♃ | -11°09'11" | 02°20'38"  | 00°02'50"  | 9.956  |
| 07/08/2013 00:00:00 | ♃  | 12°21'31" ♀ | 04°13'28"  | -00°42'54" | -00°00'57" | 19.484 |
| 07/08/2013 00:00:00 | ♃  | 04°30'04" ♃ | -10°29'34" | -00°40'53" | -00°01'31" | 29.028 |
| 07/08/2013 00:00:00 | ♃  | 09°27'18" ♃ | -19°57'27" | 03°08'55"  | -00°01'09" | 31.653 |
| 07/08/2013 00:00:00 | ♃  | 12°00'01" ♃ | -15°26'02" | 00°00'00"  | -00°13'44" | 0.003  |
| 07/08/2013 00:00:00 | ♃  | 12°41'48" ♃ | -01°43'56" | 05°28'25"  | -00°02'25" | 16.689 |
| 07/08/2013 00:00:00 | ♃  | 06°31'58" ☾ | 19°05'15"  | -04°11'30" | 00°06'41"  | 0.003  |
| 07/08/2013 00:00:00 | T♄ | 12°00'01" ♃ | -15°26'02" | 00°00'00"  | -00°13'44" | 0.003  |
| 07/08/2013 00:00:00 | T♄ | 07°50'32" ☾ | 19°04'20"  | -04°08'17" | 02°38'46"  | 0.003  |
| 07/08/2013 00:00:00 | X  | 22°55'29" ♀ | -03°12'51" | -13°02'18" | -00°00'11" | 96.089 |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 07/08/2013 00:00:00 | Y  | 24°18'44" ♄ | 07°17'19"  | -11°54'05" | 00°00'12"  | 86.666 |
| 08/08/2013 00:00:00 | ☉  | 15°37'32" ♁ | 16°08'56"  | -00°00'00" | 00°57'31"  | 1.014  |
| 08/08/2013 00:00:00 | ☾  | 27°57'51" ♁ | 07°39'59"  | -04°48'10" | 12°21'52"  | 0.003  |
| 08/08/2013 00:00:00 | ♀  | 29°09'00" ♃ | 20°27'12"  | 00°07'52"  | 01°39'10"  | 1.095  |
| 08/08/2013 00:00:00 | ♀  | 19°43'12" ♃ | 05°04'59"  | 01°06'06"  | 01°11'30"  | 1.287  |
| 08/08/2013 00:00:00 | ♂  | 16°58'13" ♃ | 23°07'20"  | 00°46'12"  | 00°39'24"  | 2.379  |
| 08/08/2013 00:00:00 | ♃  | 09°26'17" ♃ | 22°56'42"  | -00°09'18" | 00°12'16"  | 5.922  |
| 08/08/2013 00:00:00 | ♅  | 05°34'59" ♃ | -11°10'22" | 02°20'23"  | 00°02'55"  | 9.973  |
| 08/08/2013 00:00:00 | ♁  | 12°20'33" ♃ | 04°13'04"  | -00°42'55" | -00°00'59" | 19.470 |
| 08/08/2013 00:00:00 | ♃  | 04°28'32" ♃ | -10°30'09" | -00°40'54" | -00°01'31" | 29.022 |
| 08/08/2013 00:00:00 | ♁  | 09°26'09" ♃ | -19°57'42" | 03°08'45"  | -00°01'08" | 31.664 |
| 08/08/2013 00:00:00 | ♁  | 11°46'40" ♃ | -15°21'56" | 00°00'00"  | -00°12'45" | 0.003  |
| 08/08/2013 00:00:00 | ♁  | 12°39'22" ♃ | -01°44'46" | 05°28'31"  | -00°02'27" | 16.682 |
| 08/08/2013 00:00:00 | ♁  | 06°38'40" ♃ | 19°04'25"  | -04°12'00" | 00°06'41"  | 0.003  |
| 08/08/2013 00:00:00 | T♁ | 11°46'40" ♃ | -15°21'56" | 00°00'00"  | -00°12'45" | 0.003  |
| 08/08/2013 00:00:00 | T♁ | 10°57'52" ♃ | 18°41'59"  | -04°17'50" | 03°36'06"  | 0.003  |
| 08/08/2013 00:00:00 | X  | 22°55'17" ♃ | -03°13'00" | -13°02'24" | -00°00'12" | 96.073 |
| 08/08/2013 00:00:00 | Y  | 24°18'57" ♄ | 07°17'14"  | -11°54'13" | 00°00'12"  | 86.649 |
| 09/08/2013 00:00:00 | ☉  | 16°35'04" ♁ | 15°51'47"  | -00°00'00" | 00°57'32"  | 1.014  |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 09/08/2013 00:00:00 | ♃ | 10°24'32" ♉ | 03°35'50"  | -04°23'21" | 12°31'36"  | 0.003  |
| 09/08/2013 00:00:00 | ♆ | 00°50'08" ♋ | 20°17'43"  | 00°20'06"  | 01°43'02"  | 1.119  |
| 09/08/2013 00:00:00 | ♀ | 20°54'41" ♉ | 04°34'45"  | 01°03'47"  | 01°11'27"  | 1.280  |
| 09/08/2013 00:00:00 | ♂ | 17°37'36" ♉ | 23°02'51"  | 00°46'47"  | 00°39'21"  | 2.376  |
| 09/08/2013 00:00:00 | ♃ | 09°38'31" ♉ | 22°55'54"  | -00°09'13" | 00°12'12"  | 5.913  |
| 09/08/2013 00:00:00 | ♃ | 05°37'57" ♉ | -11°11'35" | 02°20'08"  | 00°03'00"  | 9.989  |
| 09/08/2013 00:00:00 | ♃ | 12°19'32" ♉ | 04°12'39"  | -00°42'57" | -00°01'02" | 19.456 |
| 09/08/2013 00:00:00 | ♃ | 04°27'00" ♉ | -10°30'44" | -00°40'55" | -00°01'32" | 29.017 |
| 09/08/2013 00:00:00 | ♃ | 09°25'01" ♉ | -19°57'56" | 03°08'35"  | -00°01'07" | 31.674 |
| 09/08/2013 00:00:00 | ♃ | 11°34'50" ♉ | -15°18'17" | 00°00'00"  | -00°10'44" | 0.003  |
| 09/08/2013 00:00:00 | ♃ | 12°36'54" ♉ | -01°45'37" | 05°28'36"  | -00°02'29" | 16.676 |
| 09/08/2013 00:00:00 | ♃ | 06°45'22" ♉ | 19°03'35"  | -04°12'31" | 00°06'41"  | 0.003  |
| 09/08/2013 00:00:00 | ♃ | 11°34'50" ♉ | -15°18'17" | 00°00'00"  | -00°10'44" | 0.003  |
| 09/08/2013 00:00:00 | ♃ | 15°00'08" ♉ | 18°08'18"  | -04°28'49" | 04°25'37"  | 0.003  |
| 09/08/2013 00:00:00 | X | 22°55'04" ♉ | -03°13'10" | -13°02'29" | -00°00'12" | 96.058 |
| 09/08/2013 00:00:00 | Y | 24°19'08" ♉ | 07°17'09"  | -11°54'21" | 00°00'11"  | 86.631 |
| 10/08/2013 00:00:00 | ♃ | 17°32'37" ♉ | 15°34'23"  | -00°00'00" | 00°57'33"  | 1.014  |
| 10/08/2013 00:00:00 | ♃ | 23°01'19" ♉ | -00°40'52" | -03°45'21" | 12°42'06"  | 0.003  |
| 10/08/2013 00:00:00 | ♆ | 02°34'58" ♋ | 20°05'36"  | 00°31'38"  | 01°46'33"  | 1.143  |



Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 10/08/2013 00:00:00 | ♀  | 22°06'08" ♍ | 04°04'23"  | 01°01'25"  | 01°11'25"  | 1.274  |
| 10/08/2013 00:00:00 | ♂  | 18°16'56" ♁ | 22°58'11"  | 00°47'21"  | 00°39'18"  | 2.373  |
| 10/08/2013 00:00:00 | ♃  | 09°50'42" ♁ | 22°55'06"  | -00°09'08" | 00°12'08"  | 5.904  |
| 10/08/2013 00:00:00 | ♅  | 05°41'01" ♎ | -11°12'50" | 02°19'53"  | 00°03'06"  | 10.005 |
| 10/08/2013 00:00:00 | ♁  | 12°18'28" ♏ | 04°12'13"  | -00°42'58" | -00°01'05" | 19.442 |
| 10/08/2013 00:00:00 | ♃  | 04°25'27" ♏ | -10°31'19" | -00°40'56" | -00°01'33" | 29.012 |
| 10/08/2013 00:00:00 | ♁  | 09°23'54" ♏ | -19°58'11" | 03°08'25"  | -00°01'06" | 31.685 |
| 10/08/2013 00:00:00 | ♁  | 11°25'25" ♎ | -15°15'23" | 00°00'00"  | -00°08'01" | 0.003  |
| 10/08/2013 00:00:00 | ♃  | 12°34'24" ♏ | -01°46'29" | 05°28'41"  | -00°02'30" | 16.670 |
| 10/08/2013 00:00:00 | ♁  | 06°52'04" ♁ | 19°02'44"  | -04°13'02" | 00°06'41"  | 0.003  |
| 10/08/2013 00:00:00 | T♁ | 11°25'25" ♎ | -15°15'23" | 00°00'00"  | -00°08'01" | 0.003  |
| 10/08/2013 00:00:00 | T♁ | 19°40'56" ♁ | 17°22'41"  | -04°39'41" | 04°50'49"  | 0.003  |
| 10/08/2013 00:00:00 | X  | 22°54'51" ♏ | -03°13'20" | -13°02'35" | -00°00'13" | 96.043 |
| 10/08/2013 00:00:00 | Y  | 24°19'19" ♏ | 07°17'03"  | -11°54'30" | 00°00'10"  | 86.614 |
| 11/08/2013 00:00:00 | ♁  | 18°30'11" ♏ | 15°16'43"  | -00°00'00" | 00°57'34"  | 1.014  |
| 11/08/2013 00:00:00 | ♃  | 05°49'08" ♏ | -04°59'43" | -02°55'26" | 12°53'44"  | 0.003  |
| 11/08/2013 00:00:00 | ♁  | 04°23'08" ♏ | 19°50'50"  | 00°42'25"  | 01°49'42"  | 1.166  |
| 11/08/2013 00:00:00 | ♀  | 23°17'31" ♎ | 03°33'55"  | 00°58'58"  | 01°11'22"  | 1.267  |
| 11/08/2013 00:00:00 | ♂  | 18°56'13" ♁ | 22°53'21"  | 00°47'56"  | 00°39'15"  | 2.370  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 11/08/2013 00:00:00 | ♃  | 10°02'49" ♉ | 22°54'17"  | -00°09'03" | 00°12'04"  | 5.895  |
| 11/08/2013 00:00:00 | ♅  | 05°44'09" ♋ | -11°14'06" | 02°19'38"  | 00°03'11"  | 10.022 |
| 11/08/2013 00:00:00 | ♆  | 12°17'21" ♌ | 04°11'45"  | -00°43'00" | -00°01'07" | 19.428 |
| 11/08/2013 00:00:00 | ♁  | 04°23'53" ♈ | -10°31'54" | -00°40'57" | -00°01'33" | 29.008 |
| 11/08/2013 00:00:00 | ♄  | 09°22'48" ♉ | -19°58'25" | 03°08'16"  | -00°01'05" | 31.697 |
| 11/08/2013 00:00:00 | ♁  | 11°18'51" ♋ | -15°13'21" | 00°00'00"  | -00°05'05" | 0.003  |
| 11/08/2013 00:00:00 | ♅  | 12°31'52" ♈ | -01°47'22" | 05°28'46"  | -00°02'32" | 16.664 |
| 11/08/2013 00:00:00 | ♁  | 06°58'46" ♉ | 19°01'54"  | -04°13'32" | 00°06'41"  | 0.003  |
| 11/08/2013 00:00:00 | T♁ | 11°18'51" ♋ | -15°13'21" | 00°00'00"  | -00°05'05" | 0.003  |
| 11/08/2013 00:00:00 | T♄ | 24°30'13" ♉ | 16°28'37"  | -04°48'48" | 04°41'34"  | 0.003  |
| 11/08/2013 00:00:00 | X  | 22°54'37" ♈ | -03°13'30" | -13°02'41" | -00°00'14" | 96.028 |
| 11/08/2013 00:00:00 | Y  | 24°19'30" ♉ | 07°16'57"  | -11°54'38" | 00°00'09"  | 86.597 |
| 12/08/2013 00:00:00 | ♁  | 19°27'47" ♉ | 14°58'49"  | -00°00'00" | 00°57'35"  | 1.013  |
| 12/08/2013 00:00:00 | ♁  | 18°49'20" ♈ | -09°09'13" | -01°55'34" | 13°06'56"  | 0.003  |
| 12/08/2013 00:00:00 | ♁  | 06°14'16" ♉ | 19°33'23"  | 00°52'24"  | 01°52'29"  | 1.188  |
| 12/08/2013 00:00:00 | ♁  | 24°28'52" ♋ | 03°03'21"  | 00°56'27"  | 01°11'19"  | 1.261  |
| 12/08/2013 00:00:00 | ♁  | 19°35'28" ♉ | 22°48'20"  | 00°48'31"  | 00°39'12"  | 2.367  |
| 12/08/2013 00:00:00 | ♃  | 10°14'52" ♉ | 22°53'27"  | -00°08'57" | 00°12'00"  | 5.885  |
| 12/08/2013 00:00:00 | ♅  | 05°47'23" ♋ | -11°15'24" | 02°19'24"  | 00°03'16"  | 10.038 |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 12/08/2013 00:00:00 | ♃ | 12°16'12" ♏ | 04°11'17"  | -00°43'02" | -00°01'10" | 19.415 |
| 12/08/2013 00:00:00 | ♃ | 04°22'19" ♏ | -10°32'29" | -00°40'58" | -00°01'34" | 29.003 |
| 12/08/2013 00:00:00 | ♃ | 09°21'44" ♏ | -19°58'40" | 03°08'06"  | -00°01'03" | 31.708 |
| 12/08/2013 00:00:00 | ♃ | 11°15'07" ♏ | -15°12'11" | 00°00'00"  | -00°02'28" | 0.003  |
| 12/08/2013 00:00:00 | ♃ | 12°29'19" ♏ | -01°48'16" | 05°28'50"  | -00°02'33" | 16.658 |
| 12/08/2013 00:00:00 | ♃ | 07°05'27" ♏ | 19°01'03"  | -04°14'02" | 00°06'41"  | 0.003  |
| 12/08/2013 00:00:00 | ♃ | 11°15'07" ♏ | -15°12'11" | 00°00'00"  | -00°02'28" | 0.003  |
| 12/08/2013 00:00:00 | ♃ | 28°51'56" ♏ | 15°33'52"  | -04°55'13" | 03°56'05"  | 0.003  |
| 12/08/2013 00:00:00 | X | 22°54'23" ♏ | -03°13'40" | -13°02'46" | -00°00'14" | 96.013 |
| 12/08/2013 00:00:00 | Y | 24°19'39" ♏ | 07°16'51"  | -11°54'46" | 00°00'09"  | 86.579 |
| 13/08/2013 00:00:00 | ♃ | 20°25'23" ♏ | 14°40'41"  | -00°00'00" | 00°57'36"  | 1.013  |
| 13/08/2013 00:00:00 | ♃ | 02°03'40" ♏ | -12°56'38" | -00°48'20" | 13°22'05"  | 0.003  |
| 13/08/2013 00:00:00 | ♃ | 08°08'00" ♏ | 19°13'16"  | 01°01'34"  | 01°54'53"  | 1.209  |
| 13/08/2013 00:00:00 | ♃ | 25°40'10" ♏ | 02°32'41"  | 00°53'51"  | 01°11'16"  | 1.254  |
| 13/08/2013 00:00:00 | ♃ | 20°14'39" ♏ | 22°43'09"  | 00°49'05"  | 00°39'09"  | 2.364  |
| 13/08/2013 00:00:00 | ♃ | 10°26'51" ♏ | 22°52'37"  | -00°08'52" | 00°11'56"  | 5.875  |
| 13/08/2013 00:00:00 | ♃ | 05°50'42" ♏ | -11°16'43" | 02°19'09"  | 00°03'21"  | 10.054 |
| 13/08/2013 00:00:00 | ♃ | 12°15'01" ♏ | 04°10'48"  | -00°43'03" | -00°01'12" | 19.402 |
| 13/08/2013 00:00:00 | ♃ | 04°20'44" ♏ | -10°33'04" | -00°40'59" | -00°01'35" | 28.999 |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 13/08/2013 00:00:00 | ♁ | 09°20'40" ♀ | -19°58'54" | 03°07'56"  | -00°01'02" | 31.720 |
| 13/08/2013 00:00:00 | ♁ | 11°13'39" ♀ | -15°11'44" | 00°00'00"  | -00°00'37" | 0.003  |
| 13/08/2013 00:00:00 | ♁ | 12°26'44" ♀ | -01°49'11" | 05°28'54"  | -00°02'35" | 16.653 |
| 13/08/2013 00:00:00 | ♁ | 07°12'09" ♀ | 19°00'12"  | -04°14'32" | 00°06'41"  | 0.003  |
| 13/08/2013 00:00:00 | ♁ | 11°13'39" ♀ | -15°11'44" | 00°00'00"  | -00°00'37" | 0.003  |
| 13/08/2013 00:00:00 | ♁ | 02°12'14" ♀ | 14°48'28"  | -04°58'55" | 02°40'20"  | 0.003  |
| 13/08/2013 00:00:00 | X | 22°54'08" ♀ | -03°13'50" | -13°02'51" | -00°00'15" | 95.998 |
| 13/08/2013 00:00:00 | Y | 24°19'48" ♀ | 07°16'45"  | -11°54'55" | 00°00'08"  | 86.562 |
| 14/08/2013 00:00:00 | ♁ | 21°23'00" ♀ | 14°22'19"  | -00°00'00" | 00°57'37"  | 1.013  |
| 14/08/2013 00:00:00 | ♁ | 15°34'09" ♀ | -16°07'58" | 00°23'00"  | 13°39'11"  | 0.003  |
| 14/08/2013 00:00:00 | ♁ | 10°03'55" ♀ | 18°50'31"  | 01°09'52"  | 01°56'53"  | 1.228  |
| 14/08/2013 00:00:00 | ♁ | 26°51'25" ♀ | 02°01'57"  | 00°51'12"  | 01°11'13"  | 1.247  |
| 14/08/2013 00:00:00 | ♁ | 20°53'47" ♀ | 22°37'47"  | 00°49'40"  | 00°39'06"  | 2.360  |
| 14/08/2013 00:00:00 | ♁ | 10°38'46" ♀ | 22°51'45"  | -00°08'47" | 00°11'52"  | 5.866  |
| 14/08/2013 00:00:00 | ♁ | 05°54'06" ♀ | -11°18'04" | 02°18'55"  | 00°03'26"  | 10.070 |
| 14/08/2013 00:00:00 | ♁ | 12°13'47" ♀ | 04°10'17"  | -00°43'05" | -00°01'15" | 19.389 |
| 14/08/2013 00:00:00 | ♁ | 04°19'09" ♀ | -10°33'40" | -00°41'00" | -00°01'35" | 28.995 |
| 14/08/2013 00:00:00 | ♁ | 09°19'38" ♀ | -19°59'08" | 03°07'45"  | -00°01'01" | 31.732 |
| 14/08/2013 00:00:00 | ♁ | 11°13'30" ♀ | -15°11'41" | 00°00'00"  | 00°00'05"  | 0.003  |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 14/08/2013 00:00:00 | ♁ | 12°24'08" ♉ | -01°50'06" | 05°28'58"  | -00°02'36" | 16.648 |
| 14/08/2013 00:00:00 | ♁ | 07°18'51" ♉ | 18°59'20"  | -04°15'02" | 00°06'41"  | 0.003  |
| 14/08/2013 00:00:00 | ♁ | 11°13'30" ♉ | -15°11'41" | 00°00'00"  | 00°00'05"  | 0.003  |
| 14/08/2013 00:00:00 | ♁ | 04°06'53" ♉ | 14°21'12"  | -05°00'33" | 01°07'38"  | 0.003  |
| 14/08/2013 00:00:00 | X | 22°53'53" ♉ | -03°14'01" | -13°02'57" | -00°00'15" | 95.983 |
| 14/08/2013 00:00:00 | Y | 24°19'56" ♉ | 07°16'39"  | -11°55'03" | 00°00'07"  | 86.545 |
| 15/08/2013 00:00:00 | ♁ | 22°20'38" ♉ | 14°03'43"  | -00°00'00" | 00°57'38"  | 1.013  |
| 15/08/2013 00:00:00 | ♁ | 29°22'34" ♉ | -18°28'27" | 01°34'34"  | 13°57'46"  | 0.002  |
| 15/08/2013 00:00:00 | ♁ | 12°01'39" ♉ | 18°25'13"  | 01°17'17"  | 01°58'29"  | 1.247  |
| 15/08/2013 00:00:00 | ♁ | 28°02'36" ♉ | 01°31'09"  | 00°48'29"  | 01°11'10"  | 1.241  |
| 15/08/2013 00:00:00 | ♁ | 21°32'52" ♉ | 22°32'16"  | 00°50'14"  | 00°39'03"  | 2.357  |
| 15/08/2013 00:00:00 | ♁ | 10°50'37" ♉ | 22°50'53"  | -00°08'42" | 00°11'48"  | 5.856  |
| 15/08/2013 00:00:00 | ♁ | 05°57'36" ♉ | -11°19'26" | 02°18'40"  | 00°03'31"  | 10.086 |
| 15/08/2013 00:00:00 | ♁ | 12°12'30" ♉ | 04°09'46"  | -00°43'06" | -00°01'17" | 19.376 |
| 15/08/2013 00:00:00 | ♁ | 04°17'33" ♉ | -10°34'16" | -00°41'01" | -00°01'35" | 28.992 |
| 15/08/2013 00:00:00 | ♁ | 09°18'38" ♉ | -19°59'22" | 03°07'35"  | -00°00'59" | 31.744 |
| 15/08/2013 00:00:00 | ♁ | 11°13'25" ♉ | -15°11'40" | 00°00'00"  | -00°00'27" | 0.003  |
| 15/08/2013 00:00:00 | ♁ | 12°21'31" ♉ | -01°51'02" | 05°29'02"  | -00°02'37" | 16.643 |
| 15/08/2013 00:00:00 | ♁ | 07°25'33" ♉ | 18°58'29"  | -04°15'32" | 00°06'41"  | 0.003  |

Ephemerides year 2013

|                     |    |              |            |            |            |        |
|---------------------|----|--------------|------------|------------|------------|--------|
| 15/08/2013 00:00:00 | T♄ | 11°13'25" ♍r | -15°11'40" | 00°00'00"  | -00°00'27" | 0.003  |
| 15/08/2013 00:00:00 | T♄ | 04°28'40" ♏r | 14°15'58"  | -05°00'47" | -00°21'31" | 0.003  |
| 15/08/2013 00:00:00 | X  | 22°53'37" ♏r | -03°14'11" | -13°03'02" | -00°00'16" | 95.969 |
| 15/08/2013 00:00:00 | Y  | 24°20'04" ♏  | 07°16'33"  | -11°55'11" | 00°00'07"  | 86.527 |
| 16/08/2013 00:00:00 | ☉  | 23°18'17" ♏  | 13°44'54"  | 00°00'00"  | 00°57'39"  | 1.013  |
| 16/08/2013 00:00:00 | ☾  | 13°29'50" ♏  | -19°44'10" | 02°41'59"  | 14°16'39"  | 0.002  |
| 16/08/2013 00:00:00 | ☿  | 14°00'47" ♏  | 17°57'28"  | 01°23'50"  | 01°59'44"  | 1.264  |
| 16/08/2013 00:00:00 | ♀  | 29°13'45" ♏  | 01°00'18"  | 00°45'41"  | 01°11'06"  | 1.234  |
| 16/08/2013 00:00:00 | ♂  | 22°11'55" ♏  | 22°26'34"  | 00°50'49"  | 00°39'00"  | 2.354  |
| 16/08/2013 00:00:00 | ♃  | 11°02'23" ♏  | 22°50'00"  | -00°08'37" | 00°11'44"  | 5.846  |
| 16/08/2013 00:00:00 | ♅  | 06°01'10" ♏  | -11°20'50" | 02°18'26"  | 00°03'36"  | 10.102 |
| 16/08/2013 00:00:00 | ♁  | 12°11'11" ♏r | 04°09'14"  | -00°43'07" | -00°01'20" | 19.363 |
| 16/08/2013 00:00:00 | ♂  | 04°15'57" ♏r | -10°34'52" | -00°41'02" | -00°01'36" | 28.989 |
| 16/08/2013 00:00:00 | ♁  | 09°17'39" ♏r | -19°59'37" | 03°07'25"  | -00°00'58" | 31.756 |
| 16/08/2013 00:00:00 | ♁  | 11°12'13" ♏r | -15°11'17" | 00°00'00"  | -00°02'07" | 0.003  |
| 16/08/2013 00:00:00 | ♁  | 12°18'53" ♏r | -01°51'59" | 05°29'05"  | -00°02'39" | 16.639 |
| 16/08/2013 00:00:00 | ♁  | 07°32'15" ♏  | 18°57'37"  | -04°16'02" | 00°06'42"  | 0.003  |
| 16/08/2013 00:00:00 | T♄ | 11°12'13" ♏r | -15°11'17" | 00°00'00"  | -00°02'07" | 0.003  |
| 16/08/2013 00:00:00 | T♄ | 03°32'38" ♏r | 14°29'34"  | -04°59'58" | -01°24'37" | 0.003  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 16/08/2013 00:00:00 | X  | 22°53'20" ♄ | -03°14'22" | -13°03'07" | -00°00'16" | 95.954 |
| 16/08/2013 00:00:00 | Y  | 24°20'11" ♃ | 07°16'26"  | -11°55'20" | 00°00'06"  | 86.510 |
| 17/08/2013 00:00:00 | ☉  | 24°15'57" ♋ | 13°25'52"  | 00°00'00"  | 00°57'40"  | 1.012  |
| 17/08/2013 00:00:00 | ☾  | 27°55'19" ♌ | -19°44'38" | 03°40'32"  | 14°33'51"  | 0.002  |
| 17/08/2013 00:00:00 | ♀  | 16°01'00" ♋ | 17°27'23"  | 01°29'29"  | 02°00'37"  | 1.280  |
| 17/08/2013 00:00:00 | ♀  | 00°24'50" ♋ | 00°29'25"  | 00°42'50"  | 01°11'03"  | 1.228  |
| 17/08/2013 00:00:00 | ♂  | 22°50'54" ♋ | 22°20'42"  | 00°51'23"  | 00°38'57"  | 2.350  |
| 17/08/2013 00:00:00 | ♃  | 11°14'05" ♋ | 22°49'07"  | -00°08'32" | 00°11'39"  | 5.835  |
| 17/08/2013 00:00:00 | ♅  | 06°04'49" ♋ | -11°22'15" | 02°18'11"  | 00°03'41"  | 10.118 |
| 17/08/2013 00:00:00 | ♁  | 12°09'50" ♄ | 04°08'41"  | -00°43'09" | -00°01'22" | 19.351 |
| 17/08/2013 00:00:00 | ♃  | 04°14'21" ♋ | -10°35'28" | -00°41'03" | -00°01'36" | 28.986 |
| 17/08/2013 00:00:00 | ♁  | 09°16'41" ♌ | -19°59'51" | 03°07'15"  | -00°00'57" | 31.769 |
| 17/08/2013 00:00:00 | ♋  | 11°08'56" ♋ | -15°10'16" | 00°00'00"  | -00°04'32" | 0.003  |
| 17/08/2013 00:00:00 | ♃  | 12°16'13" ♋ | -01°52'57" | 05°29'07"  | -00°02'40" | 16.634 |
| 17/08/2013 00:00:00 | ♁  | 07°38'57" ♋ | 18°56'45"  | -04°16'32" | 00°06'42"  | 0.003  |
| 17/08/2013 00:00:00 | T♋ | 11°08'56" ♋ | -15°10'16" | 00°00'00"  | -00°04'32" | 0.003  |
| 17/08/2013 00:00:00 | T♁ | 01°52'19" ♋ | 14°53'20"  | -04°58'22" | -01°49'43" | 0.003  |
| 17/08/2013 00:00:00 | X  | 22°53'04" ♄ | -03°14'33" | -13°03'12" | -00°00'17" | 95.940 |
| 17/08/2013 00:00:00 | Y  | 24°20'17" ♃ | 07°16'19"  | -11°55'28" | 00°00'05"  | 86.492 |

Ephemerides year 2013

|                     |    |           |   |            |            |            |        |
|---------------------|----|-----------|---|------------|------------|------------|--------|
| 18/08/2013 00:00:00 | ♁  | 25°13'37" | ♏ | 13°06'37"  | 00°00'00"  | 00°57'41"  | 1.012  |
| 18/08/2013 00:00:00 | ♃  | 12°36'11" | ♌ | -18°25'48" | 04°25'38"  | 14°46'57"  | 0.002  |
| 18/08/2013 00:00:00 | ♁  | 18°01'55" | ♏ | 16°55'07"  | 01°34'15"  | 02°01'10"  | 1.295  |
| 18/08/2013 00:00:00 | ♀  | 01°35'52" | ♋ | -00°01'29" | 00°39'55"  | 01°10'59"  | 1.221  |
| 18/08/2013 00:00:00 | ♂  | 23°29'51" | ♍ | 22°14'41"  | 00°51'57"  | 00°38'55"  | 2.347  |
| 18/08/2013 00:00:00 | ♃  | 11°25'43" | ♌ | 22°48'13"  | -00°08'27" | 00°11'35"  | 5.825  |
| 18/08/2013 00:00:00 | ♄  | 06°08'33" | ♎ | -11°23'42" | 02°17'57"  | 00°03'46"  | 10.133 |
| 18/08/2013 00:00:00 | ♅  | 12°08'27" | ♏ | 04°08'07"  | -00°43'10" | -00°01'24" | 19.338 |
| 18/08/2013 00:00:00 | ♆  | 04°12'44" | ♐ | -10°36'04" | -00°41'04" | -00°01'36" | 28.983 |
| 18/08/2013 00:00:00 | ♁  | 09°15'45" | ♏ | -20°00'05" | 03°07'04"  | -00°00'55" | 31.781 |
| 18/08/2013 00:00:00 | ♁  | 11°03'05" | ♎ | -15°08'27" | 00°00'00"  | -00°07'07" | 0.003  |
| 18/08/2013 00:00:00 | ♆  | 12°13'32" | ♐ | -01°53'55" | 05°29'10"  | -00°02'41" | 16.630 |
| 18/08/2013 00:00:00 | ♁  | 07°45'39" | ♌ | 18°55'53"  | -04°17'01" | 00°06'42"  | 0.003  |
| 18/08/2013 00:00:00 | T♁ | 11°03'05" | ♎ | -15°08'27" | 00°00'00"  | -00°07'07" | 0.003  |
| 18/08/2013 00:00:00 | T♁ | 00°03'23" | ♏ | 15°18'14"  | -04°56'26" | -01°44'45" | 0.003  |
| 18/08/2013 00:00:00 | X  | 22°52'46" | ♏ | -03°14'44" | -13°03'18" | -00°00'17" | 95.926 |
| 18/08/2013 00:00:00 | Y  | 24°20'23" | ♏ | 07°16'13"  | -11°55'36" | 00°00'05"  | 86.475 |
| 19/08/2013 00:00:00 | ♁  | 26°11'20" | ♏ | 12°47'10"  | 00°00'00"  | 00°57'42"  | 1.012  |
| 19/08/2013 00:00:00 | ♃  | 27°27'01" | ♌ | -15°52'07" | 04°53'25"  | 14°53'25"  | 0.002  |



Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 19/08/2013 00:00:00 | ♀  | 20°03'14" ♈ | 16°20'49"  | 01°38'10"  | 02°01'25"  | 1.308  |
| 19/08/2013 00:00:00 | ♀  | 02°46'50" ♉ | -00°32'26" | 00°36'56"  | 01°10'56"  | 1.214  |
| 19/08/2013 00:00:00 | ♂  | 24°08'44" ♊ | 22°08'30"  | 00°52'32"  | 00°38'52"  | 2.343  |
| 19/08/2013 00:00:00 | ♋  | 11°37'16" ♊ | 22°47'18"  | -00°08'21" | 00°11'30"  | 5.814  |
| 19/08/2013 00:00:00 | ♌  | 06°12'22" ♋ | -11°25'10" | 02°17'43"  | 00°03'51"  | 10.149 |
| 19/08/2013 00:00:00 | ♍  | 12°07'01" ♋ | 04°07'33"  | -00°43'12" | -00°01'27" | 19.326 |
| 19/08/2013 00:00:00 | ♎  | 04°11'07" ♋ | -10°36'40" | -00°41'05" | -00°01'37" | 28.981 |
| 19/08/2013 00:00:00 | ♏  | 09°14'49" ♋ | -20°00'19" | 03°06'54"  | -00°00'54" | 31.794 |
| 19/08/2013 00:00:00 | ♐  | 10°54'49" ♋ | -15°05'53" | 00°00'00"  | -00°09'16" | 0.003  |
| 19/08/2013 00:00:00 | ♑  | 12°10'50" ♋ | -01°54'55" | 05°29'12"  | -00°02'42" | 16.627 |
| 19/08/2013 00:00:00 | ♒  | 07°52'21" ♊ | 18°55'01"  | -04°17'31" | 00°06'42"  | 0.003  |
| 19/08/2013 00:00:00 | T♏ | 10°54'49" ♋ | -15°05'53" | 00°00'00"  | -00°09'16" | 0.003  |
| 19/08/2013 00:00:00 | T♑ | 28°25'43" ♊ | 15°39'40"  | -04°54'34" | -01°30'59" | 0.003  |
| 19/08/2013 00:00:00 | X  | 22°52'28" ♋ | -03°14'55" | -13°03'23" | -00°00'18" | 95.912 |
| 19/08/2013 00:00:00 | Y  | 24°20'28" ♋ | 07°16'06"  | -11°55'45" | 00°00'04"  | 86.458 |
| 20/08/2013 00:00:00 | ♈  | 27°09'03" ♈ | 12°27'31"  | 00°00'00"  | 00°57'43"  | 1.012  |
| 20/08/2013 00:00:00 | ♉  | 12°20'13" ♉ | -12°16'08" | 05°01'28"  | 14°51'30"  | 0.002  |
| 20/08/2013 00:00:00 | ♀  | 22°04'40" ♈ | 15°44'40"  | 01°41'15"  | 02°01'23"  | 1.320  |
| 20/08/2013 00:00:00 | ♀  | 03°57'44" ♉ | -01°03'22" | 00°33'53"  | 01°10'52"  | 1.207  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 20/08/2013 00:00:00 | ♂  | 24°47'35" ♉ | 22°02'09"  | 00°53'06"  | 00°38'49"  | 2.340  |
| 20/08/2013 00:00:00 | ♃  | 11°48'44" ♉ | 22°46'23"  | -00°08'16" | 00°11'26"  | 5.804  |
| 20/08/2013 00:00:00 | ♃  | 06°16'16" ♎ | -11°26'40" | 02°17'29"  | 00°03'55"  | 10.165 |
| 20/08/2013 00:00:00 | ♃  | 12°05'32" ♏ | 04°06'57"  | -00°43'13" | -00°01'29" | 19.314 |
| 20/08/2013 00:00:00 | ♃  | 04°09'29" ♏ | -10°37'16" | -00°41'05" | -00°01'37" | 28.979 |
| 20/08/2013 00:00:00 | ♃  | 09°13'56" ♏ | -20°00'33" | 03°06'43"  | -00°00'53" | 31.808 |
| 20/08/2013 00:00:00 | ♁  | 10°44'51" ♎ | -15°02'47" | 00°00'00"  | -00°10'28" | 0.003  |
| 20/08/2013 00:00:00 | ♃  | 12°08'07" ♏ | -01°55'55" | 05°29'14"  | -00°02'43" | 16.623 |
| 20/08/2013 00:00:00 | ♃  | 07°59'03" ♉ | 18°54'09"  | -04°18'00" | 00°06'41"  | 0.003  |
| 20/08/2013 00:00:00 | T♁ | 10°44'51" ♎ | -15°02'47" | 00°00'00"  | -00°10'28" | 0.003  |
| 20/08/2013 00:00:00 | T♃ | 26°57'42" ♏ | 15°58'07"  | -04°52'56" | -01°27'56" | 0.003  |
| 20/08/2013 00:00:00 | X  | 22°52'09" ♏ | -03°15'06" | -13°03'27" | -00°00'18" | 95.898 |
| 20/08/2013 00:00:00 | Y  | 24°20'32" ♏ | 07°15'58"  | -11°55'53" | 00°00'03"  | 86.440 |
| 21/08/2013 00:00:00 | ♁  | 28°06'47" ♏ | 12°07'40"  | 00°00'00"  | 00°57'45"  | 1.012  |
| 21/08/2013 00:00:00 | ♃  | 27°07'02" ♏ | -07°56'04" | 04°49'18"  | 14°40'41"  | 0.002  |
| 21/08/2013 00:00:00 | ♃  | 24°05'57" ♏ | 15°06'49"  | 01°43'31"  | 02°01'08"  | 1.330  |
| 21/08/2013 00:00:00 | ♀  | 05°08'35" ♏ | -01°34'19" | 00°30'47"  | 01°10'49"  | 1.201  |
| 21/08/2013 00:00:00 | ♂  | 25°26'23" ♉ | 21°55'39"  | 00°53'40"  | 00°38'46"  | 2.336  |
| 21/08/2013 00:00:00 | ♃  | 12°00'08" ♉ | 22°45'28"  | -00°08'11" | 00°11'21"  | 5.793  |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 21/08/2013 00:00:00 | ♃ | 06°20'14" ♍ | -11°28'11" | 02°17'16"  | 00°04'00"  | 10.180 |
| 21/08/2013 00:00:00 | ♅ | 12°04'02" ♏ | 04°06'20"  | -00°43'14" | -00°01'31" | 19.303 |
| 21/08/2013 00:00:00 | ♆ | 04°07'51" ♏ | -10°37'53" | -00°41'06" | -00°01'37" | 28.977 |
| 21/08/2013 00:00:00 | ♁ | 09°13'03" ♎ | -20°00'48" | 03°06'33"  | -00°00'51" | 31.821 |
| 21/08/2013 00:00:00 | ♄ | 10°34'16" ♍ | -14°59'29" | 00°00'00"  | -00°10'27" | 0.003  |
| 21/08/2013 00:00:00 | ♁ | 12°05'22" ♏ | -01°56'55" | 05°29'15"  | -00°02'44" | 16.620 |
| 21/08/2013 00:00:00 | ♁ | 08°05'45" ♎ | 18°53'16"  | -04°18'29" | 00°06'41"  | 0.003  |
| 21/08/2013 00:00:00 | ♁ | 10°34'16" ♍ | -14°59'29" | 00°00'00"  | -00°10'27" | 0.003  |
| 21/08/2013 00:00:00 | ♁ | 25°23'12" ♎ | 16°16'59"  | -04°51'15" | -01°44'20" | 0.003  |
| 21/08/2013 00:00:00 | X | 22°51'50" ♏ | -03°15'18" | -13°03'32" | -00°00'19" | 95.884 |
| 21/08/2013 00:00:00 | Y | 24°20'35" ♏ | 07°15'51"  | -11°56'01" | 00°00'02"  | 86.423 |
| 22/08/2013 00:00:00 | ♁ | 29°04'33" ♏ | 11°47'37"  | 00°00'00"  | 00°57'46"  | 1.011  |
| 22/08/2013 00:00:00 | ♃ | 11°38'59" ♏ | -03°12'23" | 04°18'28"  | 14°22'03"  | 0.002  |
| 22/08/2013 00:00:00 | ♁ | 26°06'53" ♏ | 14°27'27"  | 01°45'01"  | 02°00'40"  | 1.340  |
| 22/08/2013 00:00:00 | ♁ | 06°19'23" ♏ | -02°05'15" | 00°27'37"  | 01°10'45"  | 1.194  |
| 22/08/2013 00:00:00 | ♁ | 26°05'07" ♎ | 21°48'59"  | 00°54'14"  | 00°38'43"  | 2.332  |
| 22/08/2013 00:00:00 | ♁ | 12°11'27" ♎ | 22°44'32"  | -00°08'06" | 00°11'16"  | 5.782  |
| 22/08/2013 00:00:00 | ♃ | 06°24'17" ♍ | -11°29'43" | 02°17'02"  | 00°04'05"  | 10.195 |
| 22/08/2013 00:00:00 | ♅ | 12°02'29" ♏ | 04°05'43"  | -00°43'16" | -00°01'34" | 19.291 |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 22/08/2013 00:00:00 | ♁  | 04°06'13" ♉ | -10°38'29" | -00°41'07" | -00°01'38" | 28.976 |
| 22/08/2013 00:00:00 | ♁  | 09°12'12" ♉ | -20°01'02" | 03°06'22"  | -00°00'50" | 31.834 |
| 22/08/2013 00:00:00 | ♁  | 10°24'19" ♉ | -14°56'22" | 00°00'00"  | -00°09'15" | 0.003  |
| 22/08/2013 00:00:00 | ♁  | 12°02'37" ♉ | -01°57'56" | 05°29'16"  | -00°02'45" | 16.617 |
| 22/08/2013 00:00:00 | ♁  | 08°12'27" ♉ | 18°52'23"  | -04°18'58" | 00°06'41"  | 0.003  |
| 22/08/2013 00:00:00 | T♁ | 10°24'19" ♉ | -14°56'22" | 00°00'00"  | -00°09'15" | 0.003  |
| 22/08/2013 00:00:00 | T♁ | 23°23'33" ♉ | 16°39'39"  | -04°48'57" | -02°16'48" | 0.003  |
| 22/08/2013 00:00:00 | X  | 22°51'30" ♉ | -03°15'29" | -13°03'37" | -00°00'20" | 95.871 |
| 22/08/2013 00:00:00 | Y  | 24°20'38" ♉ | 07°15'44"  | -11°56'10" | 00°00'02"  | 86.405 |
| 23/08/2013 00:00:00 | ♁  | 00°02'20" ♉ | 11°27'23"  | 00°00'00"  | 00°57'47"  | 1.011  |
| 23/08/2013 00:00:00 | ♁  | 25°49'19" ♉ | 01°35'11"  | 03°32'14"  | 13°57'55"  | 0.002  |
| 23/08/2013 00:00:00 | ♁  | 28°07'15" ♉ | 13°46'43"  | 01°45'46"  | 02°00'02"  | 1.348  |
| 23/08/2013 00:00:00 | ♁  | 07°30'07" ♉ | -02°36'09" | 00°24'24"  | 01°10'41"  | 1.187  |
| 23/08/2013 00:00:00 | ♁  | 26°43'50" ♉ | 21°42'10"  | 00°54'48"  | 00°38'40"  | 2.329  |
| 23/08/2013 00:00:00 | ♁  | 12°22'41" ♉ | 22°43'35"  | -00°08'01" | 00°11'11"  | 5.770  |
| 23/08/2013 00:00:00 | ♁  | 06°28'24" ♉ | -11°31'16" | 02°16'48"  | 00°04'09"  | 10.211 |
| 23/08/2013 00:00:00 | ♁  | 12°00'53" ♉ | 04°05'05"  | -00°43'17" | -00°01'36" | 19.280 |
| 23/08/2013 00:00:00 | ♁  | 04°04'35" ♉ | -10°39'06" | -00°41'08" | -00°01'38" | 28.975 |
| 23/08/2013 00:00:00 | ♁  | 09°11'23" ♉ | -20°01'16" | 03°06'12"  | -00°00'48" | 31.848 |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 23/08/2013 00:00:00 | ♏  | 10°16'04" ♀ | -14°53'46" | 00°00'00"  | -00°07'09" | 0.003  |
| 23/08/2013 00:00:00 | ♋  | 11°59'51" ♀ | -01°58'58" | 05°29'17"  | -00°02'46" | 16.615 |
| 23/08/2013 00:00:00 | ♌  | 08°19'09" ♀ | 18°51'30"  | -04°19'27" | 00°06'41"  | 0.003  |
| 23/08/2013 00:00:00 | T♏ | 10°16'04" ♀ | -14°53'46" | 00°00'00"  | -00°07'09" | 0.003  |
| 23/08/2013 00:00:00 | T♌ | 20°48'36" ♀ | 17°07'14"  | -04°45'29" | -02°52'07" | 0.003  |
| 23/08/2013 00:00:00 | X  | 22°51'10" ♀ | -03°15'41" | -13°03'42" | -00°00'20" | 95.858 |
| 23/08/2013 00:00:00 | Y  | 24°20'40" ♀ | 07°15'36"  | -11°56'18" | 00°00'01"  | 86.388 |
| 24/08/2013 00:00:00 | ♉  | 01°00'09" ♀ | 11°06'59"  | 00°00'00"  | 00°57'49"  | 1.011  |
| 24/08/2013 00:00:00 | ♊  | 09°33'57" ♀ | 06°09'37"  | 02°34'44"  | 13°31'10"  | 0.003  |
| 24/08/2013 00:00:00 | ♌  | 00°06'54" ♀ | 13°04'48"  | 01°45'49"  | 01°59'15"  | 1.355  |
| 24/08/2013 00:00:00 | ♍  | 08°40'47" ♀ | -03°07'02" | 00°21'07"  | 01°10'38"  | 1.180  |
| 24/08/2013 00:00:00 | ♎  | 27°22'29" ♀ | 21°35'12"  | 00°55'21"  | 00°38'38"  | 2.325  |
| 24/08/2013 00:00:00 | ♏  | 12°33'50" ♀ | 22°42'38"  | -00°07'56" | 00°11'06"  | 5.759  |
| 24/08/2013 00:00:00 | ♐  | 06°32'37" ♀ | -11°32'51" | 02°16'35"  | 00°04'14"  | 10.226 |
| 24/08/2013 00:00:00 | ♑  | 11°59'16" ♀ | 04°04'26"  | -00°43'18" | -00°01'38" | 19.269 |
| 24/08/2013 00:00:00 | ♒  | 04°02'56" ♀ | -10°39'42" | -00°41'08" | -00°01'38" | 28.974 |
| 24/08/2013 00:00:00 | ♓  | 09°10'35" ♀ | -20°01'30" | 03°06'01"  | -00°00'47" | 31.862 |
| 24/08/2013 00:00:00 | ♏  | 10°10'09" ♀ | -14°51'55" | 00°00'00"  | -00°04'38" | 0.002  |
| 24/08/2013 00:00:00 | ♋  | 11°57'04" ♀ | -02°00'01" | 05°29'17"  | -00°02'47" | 16.613 |


































Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 24/08/2013 00:00:00 | ☾ | 08°25'51" ♉ | 18°50'37"  | -04°19'56" | 00°06'41"  | 0.003  |
| 24/08/2013 00:00:00 | ♁ | 10°10'09" ♎ | -14°51'55" | 00°00'00"  | -00°04'38" | 0.002  |
| 24/08/2013 00:00:00 | ♁ | 17°44'08" ♉ | 17°37'26"  | -04°40'30" | -03°13'04" | 0.003  |
| 24/08/2013 00:00:00 | X | 22°50'49" ♎ | -03°15'53" | -13°03'46" | -00°00'21" | 95.844 |
| 24/08/2013 00:00:00 | Y | 24°20'41" ♉ | 07°15'28"  | -11°56'27" | 00°00'00"  | 86.371 |
| 25/08/2013 00:00:00 | ☉ | 01°57'59" ♎ | 10°46'23"  | -00°00'00" | 00°57'51"  | 1.011  |
| 25/08/2013 00:00:00 | ☾ | 22°51'43" ♎ | 10°17'14"  | 01°30'22"  | 13°04'35"  | 0.003  |
| 25/08/2013 00:00:00 | ♀ | 02°05'43" ♎ | 12°21'50"  | 01°45'12"  | 01°58'21"  | 1.361  |
| 25/08/2013 00:00:00 | ♀ | 09°51'23" ♉ | -03°37'51" | 00°17'47"  | 01°10'34"  | 1.173  |
| 25/08/2013 00:00:00 | ♂ | 28°01'06" ♉ | 21°28'05"  | 00°55'55"  | 00°38'35"  | 2.321  |
| 25/08/2013 00:00:00 | ♃ | 12°44'55" ♉ | 22°41'40"  | -00°07'50" | 00°11'01"  | 5.748  |
| 25/08/2013 00:00:00 | ♃ | 06°36'53" ♎ | -11°34'28" | 02°16'21"  | 00°04'18"  | 10.241 |
| 25/08/2013 00:00:00 | ♃ | 11°57'37" ♎ | 04°03'46"  | -00°43'19" | -00°01'40" | 19.258 |
| 25/08/2013 00:00:00 | ♃ | 04°01'18" ♎ | -10°40'19" | -00°41'09" | -00°01'38" | 28.973 |
| 25/08/2013 00:00:00 | ♃ | 09°09'48" ♎ | -20°01'43" | 03°05'50"  | -00°00'45" | 31.876 |
| 25/08/2013 00:00:00 | ♁ | 10°06'44" ♎ | -14°50'50" | 00°00'00"  | -00°02'14" | 0.002  |
| 25/08/2013 00:00:00 | ♃ | 11°54'16" ♎ | -02°01'04" | 05°29'17"  | -00°02'47" | 16.611 |
| 25/08/2013 00:00:00 | ☾ | 08°32'33" ♉ | 18°49'44"  | -04°20'24" | 00°06'41"  | 0.003  |
| 25/08/2013 00:00:00 | ♁ | 10°06'44" ♎ | -14°50'50" | 00°00'00"  | -00°02'14" | 0.002  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 25/08/2013 00:00:00 | T♄ | 14°31'20" ♉ | 18°05'52"  | -04°34'20" | -03°07'48" | 0.003  |
| 25/08/2013 00:00:00 | X  | 22°50'28" ♏ | -03°16'04" | -13°03'51" | -00°00'21" | 95.831 |
| 25/08/2013 00:00:00 | Y  | 24°20'41" ♏ | 07°15'20"  | -11°56'35" | 00°00'00"  | 86.353 |
| 26/08/2013 00:00:00 | ☉  | 02°55'51" ♍ | 10°25'37"  | -00°00'00" | 00°57'53"  | 1.011  |
| 26/08/2013 00:00:00 | ☾  | 05°43'57" ♏ | 13°47'44"  | 00°23'12"  | 12°40'26"  | 0.003  |
| 26/08/2013 00:00:00 | ♀  | 04°03'35" ♍ | 11°37'58"  | 01°43'58"  | 01°57'21"  | 1.365  |
| 26/08/2013 00:00:00 | ♀  | 11°01'56" ♋ | -04°08'38" | 00°14'24"  | 01°10'31"  | 1.166  |
| 26/08/2013 00:00:00 | ♂  | 28°39'40" ♉ | 21°20'49"  | 00°56'29"  | 00°38'32"  | 2.317  |
| 26/08/2013 00:00:00 | ♃  | 12°55'54" ♉ | 22°40'42"  | -00°07'45" | 00°10'56"  | 5.736  |
| 26/08/2013 00:00:00 | ♅  | 06°41'14" ♍ | -11°36'05" | 02°16'08"  | 00°04'23"  | 10.256 |
| 26/08/2013 00:00:00 | ♁  | 11°55'55" ♏ | 04°03'05"  | -00°43'21" | -00°01'42" | 19.247 |
| 26/08/2013 00:00:00 | ♆  | 03°59'39" ♏ | -10°40'55" | -00°41'10" | -00°01'38" | 28.973 |
| 26/08/2013 00:00:00 | ♁  | 09°09'04" ♏ | -20°01'57" | 03°05'39"  | -00°00'44" | 31.890 |
| 26/08/2013 00:00:00 | ♁  | 10°05'28" ♍ | -14°50'26" | 00°00'00"  | -00°00'25" | 0.002  |
| 26/08/2013 00:00:00 | ♁  | 11°51'28" ♏ | -02°02'08" | 05°29'17"  | -00°02'48" | 16.609 |
| 26/08/2013 00:00:00 | ♁  | 08°39'15" ♉ | 18°48'50"  | -04°20'53" | 00°06'42"  | 0.003  |
| 26/08/2013 00:00:00 | T♄ | 10°05'28" ♍ | -14°50'26" | 00°00'00"  | -00°00'25" | 0.002  |
| 26/08/2013 00:00:00 | T♄ | 11°37'02" ♉ | 18°28'43"  | -04°27'55" | -02°37'22" | 0.003  |
| 26/08/2013 00:00:00 | X  | 22°50'06" ♏ | -03°16'16" | -13°03'55" | -00°00'22" | 95.819 |

Ephemerides year 2013

|                     |   |   |            |            |            |        |
|---------------------|---|---|------------|------------|------------|--------|
| 26/08/2013 00:00:00 | Y   | 24°20'41"    | 07°15'12"  | -11°56'43" | -00°00'00" | 86.336 |
| 27/08/2013 00:00:00 |    | 03°53'45"    | 10°04'42"  | -00°00'00" | 00°57'54"  | 1.010  |
| 27/08/2013 00:00:00 |    | 18°13'57"    | 16°33'45"  | -00°43'17" | 12°20'19"  | 0.003  |
| 27/08/2013 00:00:00 |    | 06°00'24"    | 10°53'20"  | 01°42'08"  | 01°56'16"  | 1.369  |
| 27/08/2013 00:00:00 |    | 12°12'26"    | -04°39'20" | 00°10'58"  | 01°10'27"  | 1.159  |
| 27/08/2013 00:00:00 |    | 29°18'11"    | 21°13'24"  | 00°57'03"  | 00°38'29"  | 2.313  |
| 27/08/2013 00:00:00 |    | 13°06'48"    | 22°39'44"  | -00°07'40" | 00°10'51"  | 5.724  |
| 27/08/2013 00:00:00 |    | 06°45'40"    | -11°37'44" | 02°15'55"  | 00°04'27"  | 10.271 |
| 27/08/2013 00:00:00 |    | 11°54'11"    | 04°02'23"  | -00°43'22" | -00°01'44" | 19.237 |
| 27/08/2013 00:00:00 |    | 03°58'00"    | -10°41'32" | -00°41'10" | -00°01'38" | 28.973 |
| 27/08/2013 00:00:00 |    | 09°08'20"    | -20°02'11" | 03°05'28"  | -00°00'42" | 31.905 |
| 27/08/2013 00:00:00 |    | 10°05'35"    | -14°50'28" | 00°00'00"  | 00°00'29"  | 0.002  |
| 27/08/2013 00:00:00 |   | 11°48'39"   | -02°03'12" | 05°29'16"  | -00°02'49" | 16.608 |
| 27/08/2013 00:00:00 |  | 08°45'57"  | 18°47'56"  | -04°21'21" | 00°06'42"  | 0.003  |
| 27/08/2013 00:00:00 | TΩ  | 10°05'35"  | -14°50'28" | 00°00'00"  | 00°00'29"  | 0.002  |
| 27/08/2013 00:00:00 | T♄  | 09°21'02"  | 18°44'39"  | -04°22'19" | -01°53'41" | 0.003  |
| 27/08/2013 00:00:00 | X   | 22°49'44"  | -03°16'28" | -13°04'00" | -00°00'22" | 95.806 |
| 27/08/2013 00:00:00 | Y   | 24°20'40"  | 07°15'04"  | -11°56'52" | -00°00'01" | 86.319 |
| 28/08/2013 00:00:00 |  | 04°51'41"  | 09°43'36"  | -00°00'00" | 00°57'56"  | 1.010  |



Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 28/08/2013 00:00:00 | ♃ | 00°26'14" ♀ | 18°30'22"  | -01°46'18" | 12°05'07"  | 0.003  |
| 28/08/2013 00:00:00 | ♄ | 07°56'06" ♀ | 10°08'04"  | 01°39'45"  | 01°55'08"  | 1.372  |
| 28/08/2013 00:00:00 | ♅ | 13°22'52" ♀ | -05°09'58" | 00°07'29"  | 01°10'24"  | 1.152  |
| 28/08/2013 00:00:00 | ♆ | 29°56'39" ♀ | 21°05'50"  | 00°57'36"  | 00°38'27"  | 2.309  |
| 28/08/2013 00:00:00 | ♇ | 13°17'36" ♀ | 22°38'45"  | -00°07'35" | 00°10'46"  | 5.713  |
| 28/08/2013 00:00:00 | ♈ | 06°50'10" ♀ | -11°39'24" | 02°15'42"  | 00°04'32"  | 10.285 |
| 28/08/2013 00:00:00 | ♉ | 11°52'26" ♀ | 04°01'41"  | -00°43'23" | -00°01'46" | 19.227 |
| 28/08/2013 00:00:00 | ♊ | 03°56'22" ♀ | -10°42'08" | -00°41'11" | -00°01'38" | 28.973 |
| 28/08/2013 00:00:00 | ♋ | 09°07'38" ♀ | -20°02'25" | 03°05'17"  | -00°00'40" | 31.919 |
| 28/08/2013 00:00:00 | ♌ | 10°06'05" ♀ | -14°50'38" | 00°00'00"  | 00°00'21"  | 0.002  |
| 28/08/2013 00:00:00 | ♍ | 11°45'50" ♀ | -02°04'17" | 05°29'15"  | -00°02'49" | 16.607 |
| 28/08/2013 00:00:00 | ♎ | 08°52'39" ♀ | 18°47'02"  | -04°21'49" | 00°06'42"  | 0.003  |
| 28/08/2013 00:00:00 | ♏ | 10°06'05" ♀ | -14°50'38" | 00°00'00"  | 00°00'21"  | 0.002  |
| 28/08/2013 00:00:00 | ♐ | 07°49'15" ♀ | 18°54'30"  | -04°18'13" | -01°11'03" | 0.003  |
| 28/08/2013 00:00:00 | ♑ | 22°49'21" ♀ | -03°16'41" | -13°04'04" | -00°00'23" | 95.793 |
| 28/08/2013 00:00:00 | ♒ | 24°20'39" ♀ | 07°14'55"  | -11°57'00" | -00°00'01" | 86.302 |
| 29/08/2013 00:00:00 | ♓ | 05°49'38" ♀ | 09°22'22"  | -00°00'00" | 00°57'58"  | 1.010  |
| 29/08/2013 00:00:00 | ♈ | 12°25'58" ♀ | 19°34'45"  | -02°43'31" | 11°55'12"  | 0.003  |
| 29/08/2013 00:00:00 | ♉ | 09°50'39" ♀ | 09°22'17"  | 01°36'51"  | 01°53'57"  | 1.374  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 29/08/2013 00:00:00 | ♀  | 14°33'14" ♈ | -05°40'30" | 00°03'57"  | 01°10'20"  | 1.145  |
| 29/08/2013 00:00:00 | ♂  | 00°35'05" ♏ | 20°58'08"  | 00°58'10"  | 00°38'24"  | 2.305  |
| 29/08/2013 00:00:00 | ♃  | 13°28'20" ♉ | 22°37'46"  | -00°07'30" | 00°10'40"  | 5.700  |
| 29/08/2013 00:00:00 | ♅  | 06°54'45" ♌ | -11°41'05" | 02°15'29"  | 00°04'36"  | 10.300 |
| 29/08/2013 00:00:00 | ♁  | 11°50'38" ♋ | 04°00'58"  | -00°43'24" | -00°01'48" | 19.217 |
| 29/08/2013 00:00:00 | ♆  | 03°54'43" ♎ | -10°42'44" | -00°41'12" | -00°01'38" | 28.974 |
| 29/08/2013 00:00:00 | ♄  | 09°06'58" ♉ | -20°02'38" | 03°05'07"  | -00°00'39" | 31.934 |
| 29/08/2013 00:00:00 | ♁  | 10°05'57" ♌ | -14°50'35" | 00°00'00"  | -00°00'46" | 0.002  |
| 29/08/2013 00:00:00 | ♅  | 11°43'00" ♎ | -02°05'22" | 05°29'14"  | -00°02'50" | 16.606 |
| 29/08/2013 00:00:00 | ♁  | 08°59'21" ♉ | 18°46'08"  | -04°22'17" | 00°06'42"  | 0.003  |
| 29/08/2013 00:00:00 | T♁ | 10°05'57" ♌ | -14°50'35" | 00°00'00"  | -00°00'46" | 0.002  |
| 29/08/2013 00:00:00 | T♄ | 06°55'05" ♉ | 19°00'00"  | -04°15'37" | -00°39'41" | 0.003  |
| 29/08/2013 00:00:00 | X  | 22°48'58" ♋ | -03°16'53" | -13°04'08" | -00°00'23" | 95.781 |
| 29/08/2013 00:00:00 | Y  | 24°20'37" ♉ | 07°14'47"  | -11°57'08" | -00°00'02" | 86.285 |
| 30/08/2013 00:00:00 | ♁  | 06°47'38" ♌ | 09°00'58"  | -00°00'00" | 00°58'00"  | 1.010  |
| 30/08/2013 00:00:00 | ♃  | 24°18'24" ♉ | 19°45'55"  | -03°33'03" | 11°50'30"  | 0.003  |
| 30/08/2013 00:00:00 | ♁  | 11°44'01" ♌ | 08°36'04"  | 01°33'28"  | 01°52'45"  | 1.375  |
| 30/08/2013 00:00:00 | ♀  | 15°43'32" ♈ | -06°10'56" | 00°00'22"  | 01°10'16"  | 1.139  |
| 30/08/2013 00:00:00 | ♂  | 01°13'28" ♏ | 20°50'17"  | 00°58'43"  | 00°38'21"  | 2.301  |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 30/08/2013 00:00:00 | ♃ | 13°38'58" ☉ | 22°36'47"  | -00°07'24" | 00°10'35"  | 5.688  |
| 30/08/2013 00:00:00 | ♃ | 06°59'24" ♀ | -11°42'48" | 02°15'17"  | 00°04'40"  | 10.315 |
| 30/08/2013 00:00:00 | ♃ | 11°48'49" ♀ | 04°00'14"  | -00°43'25" | -00°01'50" | 19.207 |
| 30/08/2013 00:00:00 | ♃ | 03°53'04" ♀ | -10°43'21" | -00°41'12" | -00°01'38" | 28.975 |
| 30/08/2013 00:00:00 | ♃ | 09°06'20" ♀ | -20°02'52" | 03°04'55"  | -00°00'37" | 31.949 |
| 30/08/2013 00:00:00 | ♃ | 10°04'17" ♀ | -14°50'04" | 00°00'00"  | -00°02'40" | 0.002  |
| 30/08/2013 00:00:00 | ♃ | 11°40'10" ♀ | -02°06'28" | 05°29'12"  | -00°02'50" | 16.605 |
| 30/08/2013 00:00:00 | ♃ | 09°06'03" ☉ | 18°45'14"  | -04°22'45" | 00°06'42"  | 0.003  |
| 30/08/2013 00:00:00 | ♃ | 10°04'17" ♀ | -14°50'04" | 00°00'00"  | -00°02'40" | 0.002  |
| 30/08/2013 00:00:00 | ♃ | 06°24'30" ☉ | 19°03'03"  | -04°14'03" | -00°24'15" | 0.003  |
| 30/08/2013 00:00:00 | X | 22°48'34" ♀ | -03°17'05" | -13°04'12" | -00°00'23" | 95.769 |
| 30/08/2013 00:00:00 | Y | 24°20'34" ♀ | 07°14'38"  | -11°57'16" | -00°00'03" | 86.268 |
| 31/08/2013 00:00:00 | ♃ | 07°45'39" ♀ | 08°39'25"  | -00°00'00" | 00°58'02"  | 1.009  |
| 31/08/2013 00:00:00 | ♃ | 06°08'36" ☉ | 19°04'36"  | -04°13'14" | 11°50'38"  | 0.003  |
| 31/08/2013 00:00:00 | ♃ | 13°36'10" ♀ | 07°49'33"  | 01°29'39"  | 01°51'31"  | 1.375  |
| 31/08/2013 00:00:00 | ♃ | 16°53'47" ♀ | -06°41'16" | -00°03'14" | 01°10'12"  | 1.131  |
| 31/08/2013 00:00:00 | ♃ | 01°51'48" ♀ | 20°42'18"  | 00°59'17"  | 00°38'18"  | 2.297  |
| 31/08/2013 00:00:00 | ♃ | 13°49'30" ☉ | 22°35'47"  | -00°07'19" | 00°10'29"  | 5.676  |
| 31/08/2013 00:00:00 | ♃ | 07°04'07" ♀ | -11°44'31" | 02°15'04"  | 00°04'45"  | 10.329 |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 31/08/2013 00:00:00 | ♃ | 11°46'57" ♏ | 03°59'30"  | -00°43'26" | -00°01'52" | 19.198 |
| 31/08/2013 00:00:00 | ♃ | 03°51'26" ♏ | -10°43'57" | -00°41'13" | -00°01'38" | 28.976 |
| 31/08/2013 00:00:00 | ♃ | 09°05'43" ♏ | -20°03'05" | 03°04'44"  | -00°00'36" | 31.964 |
| 31/08/2013 00:00:00 | ♃ | 10°00'27" ♏ | -14°48'52" | 00°00'00"  | -00°05'00" | 0.002  |
| 31/08/2013 00:00:00 | ♃ | 11°37'19" ♏ | -02°07'34" | 05°29'10"  | -00°02'50" | 16.605 |
| 31/08/2013 00:00:00 | ♃ | 09°12'45" ♏ | 18°44'19"  | -04°23'13" | 00°06'42"  | 0.003  |
| 31/08/2013 00:00:00 | ♃ | 10°00'27" ♏ | -14°48'52" | 00°00'00"  | -00°05'00" | 0.002  |
| 31/08/2013 00:00:00 | ♃ | 06°01'15" ♏ | 19°05'18"  | -04°12'52" | -00°24'38" | 0.003  |
| 31/08/2013 00:00:00 | X | 22°48'10" ♏ | -03°17'17" | -13°04'16" | -00°00'24" | 95.757 |
| 31/08/2013 00:00:00 | Y | 24°20'30" ♏ | 07°14'29"  | -11°57'25" | -00°00'03" | 86.251 |
| 01/09/2013 00:00:00 | ♃ | 08°43'42" ♏ | 08°17'44"  | -00°00'00" | 00°58'04"  | 1.009  |
| 01/09/2013 00:00:00 | ♃ | 18°01'04" ♏ | 17°33'13"  | -04°42'35" | 11°54'57"  | 0.003  |
| 01/09/2013 00:00:00 | ♃ | 15°27'04" ♏ | 07°02'47"  | 01°25'25"  | 01°50'17"  | 1.375  |
| 01/09/2013 00:00:00 | ♃ | 18°03'58" ♏ | -07°11'29" | -00°06'54" | 01°10'08"  | 1.124  |
| 01/09/2013 00:00:00 | ♃ | 02°30'05" ♏ | 20°34'11"  | 00°59'50"  | 00°38'15"  | 2.292  |
| 01/09/2013 00:00:00 | ♃ | 13°59'56" ♏ | 22°34'48"  | -00°07'14" | 00°10'23"  | 5.664  |
| 01/09/2013 00:00:00 | ♃ | 07°08'54" ♏ | -11°46'16" | 02°14'52"  | 00°04'49"  | 10.343 |
| 01/09/2013 00:00:00 | ♃ | 11°45'04" ♏ | 03°58'45"  | -00°43'27" | -00°01'54" | 19.189 |
| 01/09/2013 00:00:00 | ♃ | 03°49'48" ♏ | -10°44'33" | -00°41'13" | -00°01'38" | 28.977 |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 01/09/2013 00:00:00 | ♁ | 09°05'07" ♉ | -20°03'19" | 03°04'33"  | -00°00'34" | 31.979 |
| 01/09/2013 00:00:00 | ♁ | 09°54'15" ♎ | -14°46'54" | 00°00'00"  | -00°07'21" | 0.002  |
| 01/09/2013 00:00:00 | ♊ | 11°34'28" ♉ | -02°08'40" | 05°29'07"  | -00°02'50" | 16.605 |
| 01/09/2013 00:00:00 | ♁ | 09°19'27" ♉ | 18°43'24"  | -04°23'41" | 00°06'42"  | 0.003  |
| 01/09/2013 00:00:00 | ♁ | 09°54'15" ♎ | -14°46'54" | 00°00'00"  | -00°07'21" | 0.002  |
| 01/09/2013 00:00:00 | ♁ | 05°31'25" ♉ | 19°07'58"  | -04°11'27" | -00°36'14" | 0.003  |
| 01/09/2013 00:00:00 | X | 22°47'45" ♉ | -03°17'30" | -13°04'20" | -00°00'24" | 95.746 |
| 01/09/2013 00:00:00 | Y | 24°20'26" ♉ | 07°14'20"  | -11°57'33" | -00°00'04" | 86.234 |
| 02/09/2013 00:00:00 | ♁ | 09°41'47" ♎ | 07°55'55"  | -00°00'00" | 00°58'05"  | 1.009  |
| 02/09/2013 00:00:00 | ♁ | 29°59'39" ♉ | 15°15'40"  | -04°59'50" | 12°02'41"  | 0.003  |
| 02/09/2013 00:00:00 | ♁ | 17°16'44" ♎ | 06°15'52"  | 01°20'49"  | 01°49'02"  | 1.374  |
| 02/09/2013 00:00:00 | ♁ | 19°14'05" ♉ | -07°41'33" | -00°10'37" | 01°10'04"  | 1.117  |
| 02/09/2013 00:00:00 | ♁ | 03°08'19" ♉ | 20°25'55"  | 01°00'24"  | 00°38'12"  | 2.288  |
| 02/09/2013 00:00:00 | ♁ | 14°10'17" ♉ | 22°33'48"  | -00°07'08" | 00°10'17"  | 5.651  |
| 02/09/2013 00:00:00 | ♁ | 07°13'45" ♎ | -11°48'02" | 02°14'39"  | 00°04'53"  | 10.357 |
| 02/09/2013 00:00:00 | ♁ | 11°43'09" ♉ | 03°57'59"  | -00°43'28" | -00°01'56" | 19.180 |
| 02/09/2013 00:00:00 | ♁ | 03°48'09" ♉ | -10°45'09" | -00°41'14" | -00°01'38" | 28.979 |
| 02/09/2013 00:00:00 | ♁ | 09°04'34" ♉ | -20°03'32" | 03°04'22"  | -00°00'32" | 31.995 |
| 02/09/2013 00:00:00 | ♁ | 09°45'52" ♎ | -14°44'15" | 00°00'00"  | -00°09'18" | 0.002  |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 02/09/2013 00:00:00 | ♁ | 11°31'37" ♋ | -02°09'47" | 05°29'05"  | -00°02'51" | 16.606 |
| 02/09/2013 00:00:00 | ♁ | 09°26'10" ♋ | 18°42'29"  | -04°24'08" | 00°06'42"  | 0.003  |
| 02/09/2013 00:00:00 | ♁ | 09°45'52" ♋ | -14°44'15" | 00°00'00"  | -00°09'18" | 0.002  |
| 02/09/2013 00:00:00 | ♁ | 04°48'09" ♋ | 19°11'31"  | -04°09'32" | -00°49'31" | 0.003  |
| 02/09/2013 00:00:00 | X | 22°47'20" ♋ | -03°17'42" | -13°04'24" | -00°00'25" | 95.734 |
| 02/09/2013 00:00:00 | Y | 24°20'21" ♋ | 07°14'11"  | -11°57'41" | -00°00'05" | 86.217 |
| 03/09/2013 00:00:00 | ♁ | 10°39'54" ♋ | 07°33'59"  | -00°00'00" | 00°58'07"  | 1.009  |
| 03/09/2013 00:00:00 | ♁ | 12°07'18" ♋ | 12°17'21"  | -05°03'52" | 12°12'54"  | 0.003  |
| 03/09/2013 00:00:00 | ♁ | 19°05'10" ♋ | 05°28'53"  | 01°15'51"  | 01°47'48"  | 1.372  |
| 03/09/2013 00:00:00 | ♁ | 20°24'08" ♋ | -08°11'29" | -00°14'22" | 01°10'00"  | 1.110  |
| 03/09/2013 00:00:00 | ♁ | 03°46'31" ♋ | 20°17'32"  | 01°00'57"  | 00°38'09"  | 2.284  |
| 03/09/2013 00:00:00 | ♁ | 14°20'32" ♋ | 22°32'48"  | -00°07'03" | 00°10'11"  | 5.638  |
| 03/09/2013 00:00:00 | ♁ | 07°18'41" ♋ | -11°49'49" | 02°14'27"  | 00°04'57"  | 10.371 |
| 03/09/2013 00:00:00 | ♁ | 11°41'12" ♋ | 03°57'12"  | -00°43'29" | -00°01'57" | 19.171 |
| 03/09/2013 00:00:00 | ♁ | 03°46'31" ♋ | -10°45'45" | -00°41'14" | -00°01'37" | 28.981 |
| 03/09/2013 00:00:00 | ♁ | 09°04'02" ♋ | -20°03'46" | 03°04'11"  | -00°00'31" | 32.010 |
| 03/09/2013 00:00:00 | ♁ | 09°35'53" ♋ | -14°41'06" | 00°00'00"  | -00°10'31" | 0.002  |
| 03/09/2013 00:00:00 | ♁ | 11°28'46" ♋ | -02°10'54" | 05°29'01"  | -00°02'51" | 16.607 |
| 03/09/2013 00:00:00 | ♁ | 09°32'52" ♋ | 18°41'34"  | -04°24'36" | 00°06'42"  | 0.003  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 03/09/2013 00:00:00 | T♄ | 09°35'53" ♍ | -14°41'06" | 00°00'00"  | -00°10'31" | 0.002  |
| 03/09/2013 00:00:00 | T♄ | 03°56'27" ♉ | 19°15'21"  | -04°07'22" | -00°50'32" | 0.003  |
| 03/09/2013 00:00:00 | X  | 22°46'54" ♏ | -03°17'55" | -13°04'28" | -00°00'25" | 95.723 |
| 03/09/2013 00:00:00 | Y  | 24°20'15" ♎ | 07°14'02"  | -11°57'49" | -00°00'06" | 86.200 |
| 04/09/2013 00:00:00 | ☉  | 11°38'02" ♍ | 07°11'55"  | -00°00'00" | 00°58'09"  | 1.009  |
| 04/09/2013 00:00:00 | ☾  | 24°26'00" ♋ | 08°44'59"  | -04°53'59" | 12°24'40"  | 0.003  |
| 04/09/2013 00:00:00 | ☿  | 20°52'22" ♍ | 04°41'53"  | 01°10'33"  | 01°46'34"  | 1.369  |
| 04/09/2013 00:00:00 | ♀  | 21°34'06" ♋ | -08°41'15" | -00°18'08" | 01°09'56"  | 1.103  |
| 04/09/2013 00:00:00 | ♂  | 04°24'39" ♋ | 20°09'01"  | 01°01'31"  | 00°38'06"  | 2.279  |
| 04/09/2013 00:00:00 | ♃  | 14°30'40" ♉ | 22°31'48"  | -00°06'58" | 00°10'05"  | 5.626  |
| 04/09/2013 00:00:00 | ♅  | 07°23'41" ♍ | -11°51'37" | 02°14'15"  | 00°05'01"  | 10.385 |
| 04/09/2013 00:00:00 | ♁  | 11°39'13" ♏ | 03°56'25"  | -00°43'30" | -00°01'59" | 19.163 |
| 04/09/2013 00:00:00 | ♆  | 03°44'54" ♏ | -10°46'21" | -00°41'15" | -00°01'37" | 28.984 |
| 04/09/2013 00:00:00 | ♁  | 09°03'31" ♎ | -20°03'59" | 03°04'00"  | -00°00'29" | 32.026 |
| 04/09/2013 00:00:00 | ♁  | 09°25'09" ♍ | -14°37'42" | 00°00'00"  | -00°10'46" | 0.003  |
| 04/09/2013 00:00:00 | ♃  | 11°25'55" ♏ | -02°12'02" | 05°28'58"  | -00°02'51" | 16.608 |
| 04/09/2013 00:00:00 | ♁  | 09°39'34" ♉ | 18°40'39"  | -04°25'03" | 00°06'42"  | 0.003  |
| 04/09/2013 00:00:00 | T♄ | 09°25'09" ♍ | -14°37'42" | 00°00'00"  | -00°10'46" | 0.003  |
| 04/09/2013 00:00:00 | T♄ | 03°15'57" ♉ | 19°17'50"  | -04°05'56" | -00°25'11" | 0.003  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 04/09/2013 00:00:00 | X  | 22°46'28" ♏ | -03°18'08" | -13°04'31" | -00°00'26" | 95.712 |
| 04/09/2013 00:00:00 | Y  | 24°20'09" ♏ | 07°13'53"  | -11°57'57" | -00°00'06" | 86.183 |
| 05/09/2013 00:00:00 | ☉  | 12°36'13" ♏ | 06°49'44"  | -00°00'00" | 00°58'11"  | 1.008  |
| 05/09/2013 00:00:00 | ☾  | 06°56'52" ♏ | 04°46'40"  | -04°29'54" | 12°37'06"  | 0.003  |
| 05/09/2013 00:00:00 | ♀  | 22°38'20" ♏ | 03°54'56"  | 01°04'58"  | 01°45'21"  | 1.366  |
| 05/09/2013 00:00:00 | ♀  | 22°44'01" ♏ | -09°10'52" | -00°21'57" | 01°09'52"  | 1.096  |
| 05/09/2013 00:00:00 | ♂  | 05°02'45" ♏ | 20°00'22"  | 01°02'04"  | 00°38'03"  | 2.275  |
| 05/09/2013 00:00:00 | ♃  | 14°40'43" ♏ | 22°30'48"  | -00°06'52" | 00°09'59"  | 5.613  |
| 05/09/2013 00:00:00 | ♅  | 07°28'44" ♏ | -11°53'26" | 02°14'03"  | 00°05'05"  | 10.399 |
| 05/09/2013 00:00:00 | ♁  | 11°37'12" ♏ | 03°55'37"  | -00°43'31" | -00°02'01" | 19.155 |
| 05/09/2013 00:00:00 | ♃  | 03°43'16" ♏ | -10°46'57" | -00°41'15" | -00°01'37" | 28.986 |
| 05/09/2013 00:00:00 | ♁  | 09°03'02" ♏ | -20°04'12" | 03°03'48"  | -00°00'27" | 32.042 |
| 05/09/2013 00:00:00 | ♁  | 09°14'41" ♏ | -14°34'22" | 00°00'00"  | -00°09'59" | 0.003  |
| 05/09/2013 00:00:00 | ♁  | 11°23'04" ♏ | -02°13'10" | 05°28'54"  | -00°02'51" | 16.609 |
| 05/09/2013 00:00:00 | ♁  | 09°46'16" ♏ | 18°39'43"  | -04°25'30" | 00°06'42"  | 0.003  |
| 05/09/2013 00:00:00 | T♁ | 09°14'41" ♏ | -14°34'22" | 00°00'00"  | -00°09'59" | 0.003  |
| 05/09/2013 00:00:00 | T♁ | 03°17'07" ♏ | 19°16'55"  | -04°06'50" | 00°32'51"  | 0.003  |
| 05/09/2013 00:00:00 | X  | 22°46'02" ♏ | -03°18'20" | -13°04'35" | -00°00'26" | 95.701 |
| 05/09/2013 00:00:00 | Y  | 24°20'02" ♏ | 07°13'43"  | -11°58'05" | -00°00'07" | 86.167 |



Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 06/09/2013 00:00:00 | ☉ | 13°34'25" ♍ | 06°27'26"  | -00°00'00" | 00°58'12"  | 1.008  |
| 06/09/2013 00:00:00 | ☾ | 19°40'13" ♍ | 00°31'49"  | -03°52'05" | 12°49'33"  | 0.003  |
| 06/09/2013 00:00:00 | ♀ | 24°23'05" ♍ | 03°08'05"  | 00°59'06"  | 01°44'09"  | 1.363  |
| 06/09/2013 00:00:00 | ♀ | 23°53'51" ♋ | -09°40'18" | -00°25'48" | 01°09'48"  | 1.089  |
| 06/09/2013 00:00:00 | ♂ | 05°40'47" ♋ | 19°51'36"  | 01°02'37"  | 00°38'00"  | 2.270  |
| 06/09/2013 00:00:00 | ♃ | 14°50'39" ♋ | 22°29'48"  | -00°06'47" | 00°09'52"  | 5.600  |
| 06/09/2013 00:00:00 | ♄ | 07°33'52" ♋ | -11°55'16" | 02°13'51"  | 00°05'09"  | 10.412 |
| 06/09/2013 00:00:00 | ♅ | 11°35'10" ♋ | 03°54'49"  | -00°43'32" | -00°02'02" | 19.147 |
| 06/09/2013 00:00:00 | ♆ | 03°41'39" ♋ | -10°47'33" | -00°41'15" | -00°01'37" | 28.989 |
| 06/09/2013 00:00:00 | ♁ | 09°02'35" ♋ | -20°04'25" | 03°03'37"  | -00°00'26" | 32.058 |
| 06/09/2013 00:00:00 | ♁ | 09°05'27" ♋ | -14°31'26" | 00°00'00"  | -00°08'19" | 0.003  |
| 06/09/2013 00:00:00 | ♂ | 11°20'12" ♋ | -02°14'18" | 05°28'50"  | -00°02'51" | 16.611 |
| 06/09/2013 00:00:00 | ♁ | 09°52'58" ♋ | 18°38'48"  | -04°25'58" | 00°06'42"  | 0.003  |
| 06/09/2013 00:00:00 | ♁ | 09°05'27" ♋ | -14°31'26" | 00°00'00"  | -00°08'19" | 0.003  |
| 06/09/2013 00:00:00 | ♁ | 04°30'26" ♋ | 19°10'09"  | -04°11'30" | 01°56'52"  | 0.003  |
| 06/09/2013 00:00:00 | X | 22°45'35" ♋ | -03°18'33" | -13°04'38" | -00°00'27" | 95.690 |
| 06/09/2013 00:00:00 | Y | 24°19'54" ♋ | 07°13'34"  | -11°58'13" | -00°00'08" | 86.150 |
| 07/09/2013 00:00:00 | ☉ | 14°32'38" ♍ | 06°05'02"  | -00°00'00" | 00°58'14"  | 1.008  |
| 07/09/2013 00:00:00 | ☾ | 02°35'49" ♋ | -03°48'42" | -03°01'44" | 13°01'34"  | 0.003  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 07/09/2013 00:00:00 | ♀  | 26°06'38" ♍ | 02°21'23"  | 00°52'59"  | 01°42'57"  | 1.358  |
| 07/09/2013 00:00:00 | ♀  | 25°03'37" ♋ | -10°09'33" | -00°29'41" | 01°09'43"  | 1.082  |
| 07/09/2013 00:00:00 | ♂  | 06°18'47" ♏ | 19°42'42"  | 01°03'11"  | 00°37'57"  | 2.265  |
| 07/09/2013 00:00:00 | ♃  | 15°00'28" ♉ | 22°28'48"  | -00°06'42" | 00°09'46"  | 5.587  |
| 07/09/2013 00:00:00 | ♅  | 07°39'03" ♌ | -11°57'08" | 02°13'40"  | 00°05'13"  | 10.425 |
| 07/09/2013 00:00:00 | ♁  | 11°33'06" ♈ | 03°54'00"  | -00°43'32" | -00°02'04" | 19.139 |
| 07/09/2013 00:00:00 | ♆  | 03°40'02" ♉ | -10°48'08" | -00°41'16" | -00°01'36" | 28.993 |
| 07/09/2013 00:00:00 | ♄  | 09°02'10" ♈ | -20°04'38" | 03°03'26"  | -00°00'24" | 32.074 |
| 07/09/2013 00:00:00 | ♁  | 08°58'14" ♌ | -14°29'07" | 00°00'00"  | -00°06'02" | 0.003  |
| 07/09/2013 00:00:00 | ♃  | 11°17'21" ♉ | -02°15'27" | 05°28'45"  | -00°02'50" | 16.613 |
| 07/09/2013 00:00:00 | ♁  | 09°59'40" ♉ | 18°37'52"  | -04°26'24" | 00°06'42"  | 0.003  |
| 07/09/2013 00:00:00 | T♁ | 08°58'14" ♌ | -14°29'07" | 00°00'00"  | -00°06'02" | 0.003  |
| 07/09/2013 00:00:00 | T♁ | 07°13'45" ♉ | 18°54'19"  | -04°20'21" | 03°29'20"  | 0.003  |
| 07/09/2013 00:00:00 | X  | 22°45'07" ♈ | -03°18'46" | -13°04'41" | -00°00'27" | 95.680 |
| 07/09/2013 00:00:00 | Y  | 24°19'45" ♈ | 07°13'24"  | -11°58'21" | -00°00'08" | 86.134 |
| 08/09/2013 00:00:00 | ♁  | 15°30'54" ♌ | 05°42'32"  | -00°00'00" | 00°58'16"  | 1.008  |
| 08/09/2013 00:00:00 | ♃  | 15°43'12" ♋ | -08°02'43" | -02°00'55" | 13°13'05"  | 0.003  |
| 08/09/2013 00:00:00 | ♀  | 27°49'00" ♌ | 01°34'53"  | 00°46'39"  | 01°41'46"  | 1.354  |
| 08/09/2013 00:00:00 | ♀  | 26°13'18" ♋ | -10°38'35" | -00°33'36" | 01°09'38"  | 1.075  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 08/09/2013 00:00:00 | ♂  | 06°56'43" ♏ | 19°33'41"  | 01°03'44"  | 00°37'54"  | 2.261  |
| 08/09/2013 00:00:00 | ♃  | 15°10'12" ♉ | 22°27'48"  | -00°06'36" | 00°09'39"  | 5.573  |
| 08/09/2013 00:00:00 | ♅  | 07°44'18" ♍ | -11°59'00" | 02°13'28"  | 00°05'17"  | 10.439 |
| 08/09/2013 00:00:00 | ♁  | 11°31'01" ♋ | 03°53'10"  | -00°43'33" | -00°02'06" | 19.132 |
| 08/09/2013 00:00:00 | ♆  | 03°38'25" ♄ | -10°48'44" | -00°41'16" | -00°01'36" | 28.996 |
| 08/09/2013 00:00:00 | ♁  | 09°01'46" ♋ | -20°04'51" | 03°03'14"  | -00°00'22" | 32.090 |
| 08/09/2013 00:00:00 | ♏  | 08°53'26" ♏ | -14°27'35" | 00°00'00"  | -00°03'32" | 0.003  |
| 08/09/2013 00:00:00 | ♅  | 11°14'30" ♍ | -02°16'35" | 05°28'40"  | -00°02'50" | 16.615 |
| 08/09/2013 00:00:00 | ♁  | 10°06'22" ♋ | 18°36'56"  | -04°26'51" | 00°06'42"  | 0.003  |
| 08/09/2013 00:00:00 | T♏ | 08°53'26" ♏ | -14°27'35" | 00°00'00"  | -00°03'32" | 0.003  |
| 08/09/2013 00:00:00 | T♁ | 11°24'37" ♋ | 18°25'29"  | -04°32'12" | 04°48'18"  | 0.003  |
| 08/09/2013 00:00:00 | X  | 22°44'39" ♋ | -03°18'59" | -13°04'44" | -00°00'28" | 95.670 |
| 08/09/2013 00:00:00 | Y  | 24°19'36" ♄ | 07°13'14"  | -11°58'29" | -00°00'09" | 86.117 |
| 09/09/2013 00:00:00 | ♁  | 16°29'10" ♋ | 05°19'57"  | -00°00'00" | 00°58'17"  | 1.007  |
| 09/09/2013 00:00:00 | ♃  | 29°01'52" ♉ | -11°56'50" | -00°52'33" | 13°24'14"  | 0.003  |
| 09/09/2013 00:00:00 | ♁  | 29°30'12" ♋ | 00°48'39"  | 00°40'06"  | 01°40'37"  | 1.349  |
| 09/09/2013 00:00:00 | ♀  | 27°22'55" ♋ | -11°07'25" | -00°37'32" | 01°09'34"  | 1.068  |
| 09/09/2013 00:00:00 | ♂  | 07°34'36" ♏ | 19°24'32"  | 01°04'17"  | 00°37'51"  | 2.256  |
| 09/09/2013 00:00:00 | ♃  | 15°19'48" ♉ | 22°26'48"  | -00°06'31" | 00°09'33"  | 5.560  |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 09/09/2013 00:00:00 | ♃ | 07°49'37" ♎ | -12°00'53" | 02°13'17"  | 00°05'20"  | 10.452 |
| 09/09/2013 00:00:00 | ♅ | 11°28'54" ♈ | 03°52'20"  | -00°43'34" | -00°02'07" | 19.125 |
| 09/09/2013 00:00:00 | ♆ | 03°36'50" ♏ | -10°49'19" | -00°41'16" | -00°01'35" | 29.000 |
| 09/09/2013 00:00:00 | ♁ | 09°01'25" ♎ | -20°05'04" | 03°03'03"  | -00°00'20" | 32.106 |
| 09/09/2013 00:00:00 | ♄ | 08°51'04" ♎ | -14°26'50" | 00°00'00"  | -00°01'16" | 0.003  |
| 09/09/2013 00:00:00 | ♂ | 11°11'40" ♏ | -02°17'44" | 05°28'35"  | -00°02'50" | 16.617 |
| 09/09/2013 00:00:00 | ♁ | 10°13'04" ♏ | 18°35'59"  | -04°27'18" | 00°06'42"  | 0.003  |
| 09/09/2013 00:00:00 | ♁ | 08°51'04" ♎ | -14°26'50" | 00°00'00"  | -00°01'16" | 0.003  |
| 09/09/2013 00:00:00 | ♁ | 16°38'43" ♏ | 17°41'22"  | -04°44'40" | 05°32'31"  | 0.003  |
| 09/09/2013 00:00:00 | X | 22°44'11" ♈ | -03°19'12" | -13°04'47" | -00°00'28" | 95.660 |
| 09/09/2013 00:00:00 | Y | 24°19'26" ♏ | 07°13'04"  | -11°58'37" | -00°00'10" | 86.101 |
| 10/09/2013 00:00:00 | ♁ | 17°27'29" ♎ | 04°57'16"  | -00°00'00" | 00°58'19"  | 1.007  |
| 10/09/2013 00:00:00 | ♃ | 12°31'39" ♎ | -15°16'48" | 00°19'49"  | 13°35'18"  | 0.003  |
| 10/09/2013 00:00:00 | ♁ | 01°10'15" ♎ | 00°02'41"  | 00°33'22"  | 01°39'28"  | 1.343  |
| 10/09/2013 00:00:00 | ♁ | 28°32'27" ♎ | -11°36'02" | -00°41'30" | 01°09'29"  | 1.060  |
| 10/09/2013 00:00:00 | ♁ | 08°12'26" ♎ | 19°15'17"  | 01°04'50"  | 00°37'48"  | 2.251  |
| 10/09/2013 00:00:00 | ♁ | 15°29'18" ♏ | 22°25'48"  | -00°06'25" | 00°09'26"  | 5.546  |
| 10/09/2013 00:00:00 | ♃ | 07°55'00" ♎ | -12°02'47" | 02°13'06"  | 00°05'24"  | 10.465 |
| 10/09/2013 00:00:00 | ♅ | 11°26'46" ♈ | 03°51'29"  | -00°43'35" | -00°02'08" | 19.118 |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 10/09/2013 00:00:00 | ♁  | 03°35'14" ♋ | -10°49'54" | -00°41'17" | -00°01'35" | 29.004 |
| 10/09/2013 00:00:00 | ♁  | 09°01'04" ♋ | -20°05'17" | 03°02'52"  | -00°00'19" | 32.123 |
| 10/09/2013 00:00:00 | ♁  | 08°50'41" ♋ | -14°26'42" | 00°00'00"  | 00°00'21"  | 0.003  |
| 10/09/2013 00:00:00 | ♁  | 11°08'50" ♋ | -02°18'53" | 05°28'29"  | -00°02'49" | 16.620 |
| 10/09/2013 00:00:00 | ♁  | 10°19'46" ♋ | 18°35'03"  | -04°27'44" | 00°06'42"  | 0.003  |
| 10/09/2013 00:00:00 | T♁ | 08°50'41" ♋ | -14°26'42" | 00°00'00"  | 00°00'21"  | 0.003  |
| 10/09/2013 00:00:00 | T♁ | 22°12'37" ♋ | 16°44'57"  | -04°55'07" | 05°26'01"  | 0.003  |
| 10/09/2013 00:00:00 | X  | 22°43'42" ♋ | -03°19'25" | -13°04'50" | -00°00'28" | 95.650 |
| 10/09/2013 00:00:00 | Y  | 24°19'16" ♋ | 07°12'54"  | -11°58'45" | -00°00'10" | 86.085 |
| 11/09/2013 00:00:00 | ♁  | 18°25'49" ♋ | 04°34'30"  | -00°00'00" | 00°58'20"  | 1.007  |
| 11/09/2013 00:00:00 | ♁  | 26°12'33" ♋ | -17°48'26" | 01°32'10"  | 13°46'31"  | 0.003  |
| 11/09/2013 00:00:00 | ♁  | 02°49'09" ♋ | -00°42'57" | 00°26'28"  | 01°38'20"  | 1.337  |
| 11/09/2013 00:00:00 | ♁  | 29°41'54" ♋ | -12°04'24" | -00°45'29" | 01°09'24"  | 1.053  |
| 11/09/2013 00:00:00 | ♁  | 08°50'13" ♋ | 19°05'54"  | 01°05'23"  | 00°37'45"  | 2.246  |
| 11/09/2013 00:00:00 | ♁  | 15°38'42" ♋ | 22°24'49"  | -00°06'20" | 00°09'19"  | 5.533  |
| 11/09/2013 00:00:00 | ♁  | 08°00'27" ♋ | -12°04'42" | 02°12'55"  | 00°05'28"  | 10.477 |
| 11/09/2013 00:00:00 | ♁  | 11°24'37" ♋ | 03°50'38"  | -00°43'35" | -00°02'10" | 19.111 |
| 11/09/2013 00:00:00 | ♁  | 03°33'39" ♋ | -10°50'28" | -00°41'17" | -00°01'34" | 29.009 |
| 11/09/2013 00:00:00 | ♁  | 09°00'46" ♋ | -20°05'29" | 03°02'40"  | -00°00'17" | 32.139 |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 11/09/2013 00:00:00 | ♏  | 08°51'29" ♎ | -14°26'58" | 00°00'00"  | 00°01'05"  | 0.003  |
| 11/09/2013 00:00:00 | ♋  | 11°06'00" ♋ | -02°20'02" | 05°28'23"  | -00°02'49" | 16.623 |
| 11/09/2013 00:00:00 | ♌  | 10°26'29" ♌ | 18°34'06"  | -04°28'11" | 00°06'42"  | 0.003  |
| 11/09/2013 00:00:00 | T♏ | 08°51'29" ♎ | -14°26'58" | 00°00'00"  | 00°01'05"  | 0.003  |
| 11/09/2013 00:00:00 | T♌ | 27°12'27" ♌ | 15°46'26"  | -05°02'01" | 04°25'16"  | 0.003  |
| 11/09/2013 00:00:00 | X  | 22°43'13" ♏ | -03°19'38" | -13°04'53" | -00°00'29" | 95.641 |
| 11/09/2013 00:00:00 | Y  | 24°19'05" ♏ | 07°12'44"  | -11°58'53" | -00°00'11" | 86.069 |
| 12/09/2013 00:00:00 | ♏  | 19°24'11" ♎ | 04°11'39"  | -00°00'00" | 00°58'22"  | 1.006  |
| 12/09/2013 00:00:00 | ♎  | 10°04'43" ♎ | -19°18'58" | 02°40'10"  | 13°57'48"  | 0.002  |
| 12/09/2013 00:00:00 | ♏  | 04°26'56" ♎ | -01°28'14" | 00°19'25"  | 01°37'13"  | 1.330  |
| 12/09/2013 00:00:00 | ♏  | 00°51'15" ♎ | -12°32'32" | -00°49'29" | 01°09'19"  | 1.046  |
| 12/09/2013 00:00:00 | ♏  | 09°27'57" ♎ | 18°56'25"  | 01°05'57"  | 00°37'42"  | 2.241  |
| 12/09/2013 00:00:00 | ♏  | 15°47'58" ♌ | 22°23'49"  | -00°06'14" | 00°09'12"  | 5.519  |
| 12/09/2013 00:00:00 | ♏  | 08°05'57" ♎ | -12°06'38" | 02°12'44"  | 00°05'31"  | 10.490 |
| 12/09/2013 00:00:00 | ♏  | 11°22'26" ♏ | 03°49'46"  | -00°43'36" | -00°02'11" | 19.105 |
| 12/09/2013 00:00:00 | ♏  | 03°32'05" ♋ | -10°51'03" | -00°41'17" | -00°01'33" | 29.013 |
| 12/09/2013 00:00:00 | ♏  | 09°00'30" ♏ | -20°05'42" | 03°02'29"  | -00°00'15" | 32.156 |
| 12/09/2013 00:00:00 | ♏  | 08°52'30" ♎ | -14°27'17" | 00°00'00"  | 00°00'46"  | 0.003  |
| 12/09/2013 00:00:00 | ♋  | 11°03'12" ♋ | -02°21'12" | 05°28'17"  | -00°02'48" | 16.627 |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 12/09/2013 00:00:00 | ☾ | 10°33'11" ♉ | 18°33'09"  | -04°28'37" | 00°06'42"  | 0.003  |
| 12/09/2013 00:00:00 | ♁ | 08°52'30" ♎ | -14°27'17" | 00°00'00"  | 00°00'46"  | 0.003  |
| 12/09/2013 00:00:00 | ♁ | 00°50'19" ♋ | 14°59'34"  | -05°05'32" | 02°46'38"  | 0.003  |
| 12/09/2013 00:00:00 | X | 22°42'44" ♏ | -03°19'51" | -13°04'56" | -00°00'29" | 95.632 |
| 12/09/2013 00:00:00 | Y | 24°18'53" ♏ | 07°12'34"  | -11°59'00" | -00°00'12" | 86.053 |
| 13/09/2013 00:00:00 | ☉ | 20°22'34" ♎ | 03°48'44"  | 00°00'00"  | 00°58'24"  | 1.006  |
| 13/09/2013 00:00:00 | ☾ | 24°08'02" ♏ | -19°39'04" | 03°39'28"  | 14°08'42"  | 0.002  |
| 13/09/2013 00:00:00 | ♀ | 06°03'36" ♉ | -02°13'08" | 00°12'14"  | 01°36'07"  | 1.323  |
| 13/09/2013 00:00:00 | ♀ | 02°00'32" ♎ | -13°00'25" | -00°53'31" | 01°09'13"  | 1.039  |
| 13/09/2013 00:00:00 | ♂ | 10°05'38" ♋ | 18°46'49"  | 01°06'30"  | 00°37'39"  | 2.236  |
| 13/09/2013 00:00:00 | ♃ | 15°57'08" ♉ | 22°22'50"  | -00°06'09" | 00°09'05"  | 5.505  |
| 13/09/2013 00:00:00 | ♃ | 08°11'30" ♎ | -12°08'34" | 02°12'34"  | 00°05'35"  | 10.502 |
| 13/09/2013 00:00:00 | ♃ | 11°20'14" ♏ | 03°48'54"  | -00°43'36" | -00°02'12" | 19.099 |
| 13/09/2013 00:00:00 | ♃ | 03°30'31" ♏ | -10°51'37" | -00°41'17" | -00°01'33" | 29.018 |
| 13/09/2013 00:00:00 | ♃ | 09°00'15" ♏ | -20°05'54" | 03°02'17"  | -00°00'13" | 32.172 |
| 13/09/2013 00:00:00 | ♁ | 08°52'45" ♎ | -14°27'22" | 00°00'00"  | -00°00'25" | 0.003  |
| 13/09/2013 00:00:00 | ♃ | 11°00'23" ♏ | -02°22'21" | 05°28'10"  | -00°02'47" | 16.631 |
| 13/09/2013 00:00:00 | ☾ | 10°39'53" ♉ | 18°32'12"  | -04°29'03" | 00°06'42"  | 0.003  |
| 13/09/2013 00:00:00 | ♁ | 08°52'45" ♎ | -14°27'22" | 00°00'00"  | -00°00'25" | 0.003  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 13/09/2013 00:00:00 | T♄ | 02°44'51" ♈ | 14°33'35"  | -05°06'50" | 01°05'27"  | 0.003  |
| 13/09/2013 00:00:00 | X  | 22°42'15" ♏ | -03°20'04" | -13°04'58" | -00°00'29" | 95.623 |
| 13/09/2013 00:00:00 | Y  | 24°18'41" ♏ | 07°12'24"  | -11°59'08" | -00°00'12" | 86.037 |
| 14/09/2013 00:00:00 | ☉  | 21°20'59" ♏ | 03°25'45"  | 00°00'00"  | 00°58'25"  | 1.006  |
| 14/09/2013 00:00:00 | ☾  | 08°21'41" ♏ | -18°44'48" | 04°26'00"  | 14°18'16"  | 0.002  |
| 14/09/2013 00:00:00 | ♀  | 07°39'10" ♏ | -02°57'37" | 00°04'56"  | 01°35'01"  | 1.316  |
| 14/09/2013 00:00:00 | ♀  | 03°09'43" ♏ | -13°28'01" | -00°57'33" | 01°09'08"  | 1.031  |
| 14/09/2013 00:00:00 | ♂  | 10°43'16" ♈ | 18°37'06"  | 01°07'03"  | 00°37'36"  | 2.231  |
| 14/09/2013 00:00:00 | ♃  | 16°06'10" ♉ | 22°21'51"  | -00°06'03" | 00°08'58"  | 5.492  |
| 14/09/2013 00:00:00 | ♅  | 08°17'07" ♏ | -12°10'32" | 02°12'23"  | 00°05'38"  | 10.515 |
| 14/09/2013 00:00:00 | ♁  | 11°18'01" ♏ | 03°48'02"  | -00°43'37" | -00°02'13" | 19.093 |
| 14/09/2013 00:00:00 | ♆  | 03°28'58" ♏ | -10°52'11" | -00°41'18" | -00°01'32" | 29.024 |
| 14/09/2013 00:00:00 | ♁  | 09°00'03" ♏ | -20°06'06" | 03°02'06"  | -00°00'11" | 32.189 |
| 14/09/2013 00:00:00 | ♁  | 08°51'27" ♏ | -14°26'57" | 00°00'00"  | -00°02'13" | 0.003  |
| 14/09/2013 00:00:00 | ♁  | 10°57'36" ♏ | -02°23'30" | 05°28'03"  | -00°02'47" | 16.635 |
| 14/09/2013 00:00:00 | ♁  | 10°46'36" ♉ | 18°31'15"  | -04°29'29" | 00°06'42"  | 0.003  |
| 14/09/2013 00:00:00 | T♁ | 08°51'27" ♏ | -14°26'57" | 00°00'00"  | -00°02'13" | 0.003  |
| 14/09/2013 00:00:00 | T♄ | 03°12'47" ♈ | 14°27'11"  | -05°07'01" | -00°01'51" | 0.003  |
| 14/09/2013 00:00:00 | X  | 22°41'45" ♏ | -03°20'17" | -13°05'01" | -00°00'30" | 95.614 |



Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 14/09/2013 00:00:00 | Y | 24°18'28" ♂ | 07°12'13"  | -11°59'16" | -00°00'13" | 86.022 |
| 15/09/2013 00:00:00 | ☉ | 22°19'25" ♍ | 03°02'43"  | 00°00'00"  | 00°58'27"  | 1.006  |
| 15/09/2013 00:00:00 | ☾ | 22°43'41" ♎ | -16°38'47" | 04°56'23"  | 14°25'09"  | 0.002  |
| 15/09/2013 00:00:00 | ♀ | 09°13'39" ♋ | -03°41'39" | -00°02'27" | 01°33'56"  | 1.308  |
| 15/09/2013 00:00:00 | ♀ | 04°18'48" ♍ | -13°55'21" | -01°01'37" | 01°09'02"  | 1.024  |
| 15/09/2013 00:00:00 | ♂ | 11°20'51" ♎ | 18°27'17"  | 01°07'36"  | 00°37'33"  | 2.226  |
| 15/09/2013 00:00:00 | ♃ | 16°15'05" ♉ | 22°20'53"  | -00°05'58" | 00°08'51"  | 5.478  |
| 15/09/2013 00:00:00 | ♄ | 08°22'48" ♍ | -12°12'31" | 02°12'13"  | 00°05'42"  | 10.527 |
| 15/09/2013 00:00:00 | ♅ | 11°15'47" ♏ | 03°47'09"  | -00°43'37" | -00°02'14" | 19.088 |
| 15/09/2013 00:00:00 | ♆ | 03°27'26" ♏ | -10°52'44" | -00°41'18" | -00°01'31" | 29.029 |
| 15/09/2013 00:00:00 | ♇ | 08°59'52" ♎ | -20°06'19" | 03°01'54"  | -00°00'10" | 32.206 |
| 15/09/2013 00:00:00 | ♈ | 08°48'14" ♍ | -14°25'55" | 00°00'00"  | -00°04'11" | 0.003  |
| 15/09/2013 00:00:00 | ♉ | 10°54'49" ♏ | -02°24'40" | 05°27'55"  | -00°02'46" | 16.639 |
| 15/09/2013 00:00:00 | ♊ | 10°53'18" ♉ | 18°30'18"  | -04°29'55" | 00°06'42"  | 0.003  |
| 15/09/2013 00:00:00 | ♋ | 08°48'14" ♍ | -14°25'55" | 00°00'00"  | -00°04'11" | 0.003  |
| 15/09/2013 00:00:00 | ♌ | 02°56'24" ♎ | 14°31'04"  | -05°06'47" | -00°24'08" | 0.003  |
| 15/09/2013 00:00:00 | X | 22°41'14" ♏ | -03°20'30" | -13°05'03" | -00°00'30" | 95.605 |
| 15/09/2013 00:00:00 | Y | 24°18'14" ♂ | 07°12'03"  | -11°59'23" | -00°00'13" | 86.006 |
| 16/09/2013 00:00:00 | ☉ | 23°17'53" ♍ | 02°39'37"  | 00°00'00"  | 00°58'28"  | 1.005  |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 16/09/2013 00:00:00 | ♃ | 07°10'37" ♁ | -13°30'05" | 05°08'12"  | 14°27'53"  | 0.002  |
| 16/09/2013 00:00:00 | ♆ | 10°47'04" ♁ | -04°25'12" | -00°09'56" | 01°32'52"  | 1.300  |
| 16/09/2013 00:00:00 | ♀ | 05°27'47" ♎ | -14°22'23" | -01°05'41" | 01°08'56"  | 1.017  |
| 16/09/2013 00:00:00 | ♂ | 11°58'22" ♏ | 18°17'22"  | 01°08'09"  | 00°37'29"  | 2.221  |
| 16/09/2013 00:00:00 | ♃ | 16°23'53" ♉ | 22°19'54"  | -00°05'52" | 00°08'44"  | 5.463  |
| 16/09/2013 00:00:00 | ♃ | 08°28'31" ♎ | -12°14'30" | 02°12'02"  | 00°05'45"  | 10.538 |
| 16/09/2013 00:00:00 | ♃ | 11°13'31" ♎ | 03°46'16"  | -00°43'38" | -00°02'15" | 19.083 |
| 16/09/2013 00:00:00 | ♃ | 03°25'54" ♎ | -10°53'18" | -00°41'18" | -00°01'31" | 29.035 |
| 16/09/2013 00:00:00 | ♃ | 08°59'42" ♎ | -20°06'31" | 03°01'43"  | -00°00'08" | 32.223 |
| 16/09/2013 00:00:00 | ♎ | 08°43'10" ♎ | -14°24'18" | 00°00'00"  | -00°05'51" | 0.003  |
| 16/09/2013 00:00:00 | ♃ | 10°52'03" ♎ | -02°25'49" | 05°27'47"  | -00°02'45" | 16.644 |
| 16/09/2013 00:00:00 | ♃ | 11°00'00" ♉ | 18°29'20"  | -04°30'21" | 00°06'42"  | 0.003  |
| 16/09/2013 00:00:00 | ♎ | 08°43'10" ♎ | -14°24'18" | 00°00'00"  | -00°05'51" | 0.003  |
| 16/09/2013 00:00:00 | ♃ | 02°33'28" ♏ | 14°36'23"  | -05°06'32" | -00°19'39" | 0.003  |
| 16/09/2013 00:00:00 | X | 22°40'44" ♎ | -03°20'43" | -13°05'05" | -00°00'30" | 95.597 |
| 16/09/2013 00:00:00 | Y | 24°18'00" ♏ | 07°11'52"  | -11°59'31" | -00°00'14" | 85.991 |
| 17/09/2013 00:00:00 | ♃ | 24°16'23" ♎ | 02°16'28"  | 00°00'00"  | 00°58'30"  | 1.005  |
| 17/09/2013 00:00:00 | ♃ | 21°37'39" ♁ | -09°32'47" | 05°00'29"  | 14°25'14"  | 0.002  |
| 17/09/2013 00:00:00 | ♆ | 12°19'23" ♁ | -05°08'16" | -00°17'29" | 01°31'47"  | 1.291  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 17/09/2013 00:00:00 | ♀  | 06°36'40" ♍ | -14°49'07" | -01°09'45" | 01°08'50"  | 1.009  |
| 17/09/2013 00:00:00 | ♂  | 12°35'51" ♏ | 18°07'20"  | 01°08'42"  | 00°37'26"  | 2.216  |
| 17/09/2013 00:00:00 | ♃  | 16°32'33" ♄ | 22°18'57"  | -00°05'47" | 00°08'36"  | 5.449  |
| 17/09/2013 00:00:00 | ♅  | 08°34'18" ♍ | -12°16'30" | 02°11'52"  | 00°05'48"  | 10.550 |
| 17/09/2013 00:00:00 | ♁  | 11°11'15" ♉ | 03°45'22"  | -00°43'38" | -00°02'17" | 19.078 |
| 17/09/2013 00:00:00 | ♃  | 03°24'24" ♄ | -10°53'51" | -00°41'18" | -00°01'30" | 29.041 |
| 17/09/2013 00:00:00 | ♁  | 08°59'35" ♉ | -20°06'43" | 03°01'31"  | -00°00'06" | 32.240 |
| 17/09/2013 00:00:00 | ♏  | 08°36'46" ♍ | -14°22'15" | 00°00'00"  | -00°06'49" | 0.003  |
| 17/09/2013 00:00:00 | ♃  | 10°49'18" ♄ | -02°26'59" | 05°27'39"  | -00°02'44" | 16.649 |
| 17/09/2013 00:00:00 | ♃  | 11°06'43" ♄ | 18°28'22"  | -04°30'47" | 00°06'42"  | 0.003  |
| 17/09/2013 00:00:00 | T♏ | 08°36'46" ♍ | -14°22'15" | 00°00'00"  | -00°06'49" | 0.003  |
| 17/09/2013 00:00:00 | T♃ | 02°16'45" ♏ | 14°40'05"  | -05°06'30" | -00°15'46" | 0.003  |
| 17/09/2013 00:00:00 | X  | 22°40'13" ♉ | -03°20'56" | -13°05'07" | -00°00'31" | 95.589 |
| 17/09/2013 00:00:00 | Y  | 24°17'45" ♉ | 07°11'42"  | -11°59'38" | -00°00'15" | 85.976 |
| 18/09/2013 00:00:00 | ♁  | 25°14'54" ♉ | 01°53'16"  | 00°00'00"  | 00°58'32"  | 1.005  |
| 18/09/2013 00:00:00 | ♃  | 05°59'06" ♄ | -05°04'00" | 04°33'55"  | 14°16'39"  | 0.002  |
| 18/09/2013 00:00:00 | ♃  | 13°50'39" ♄ | -05°50'47" | -00°25'06" | 01°30'43"  | 1.282  |
| 18/09/2013 00:00:00 | ♀  | 07°45'28" ♍ | -15°15'33" | -01°13'50" | 01°08'44"  | 1.002  |
| 18/09/2013 00:00:00 | ♂  | 13°13'16" ♏ | 17°57'12"  | 01°09'15"  | 00°37'23"  | 2.211  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 18/09/2013 00:00:00 | ♃  | 16°41'06" ♉ | 22°17'59"  | -00°05'41" | 00°08'29"  | 5.435  |
| 18/09/2013 00:00:00 | ♅  | 08°40'08" ♋ | -12°18'30" | 02°11'42"  | 00°05'51"  | 10.562 |
| 18/09/2013 00:00:00 | ♆  | 11°08'57" ♌ | 03°44'28"  | -00°43'39" | -00°02'18" | 19.073 |
| 18/09/2013 00:00:00 | ♇  | 03°22'53" ♍ | -10°54'23" | -00°41'18" | -00°01'29" | 29.048 |
| 18/09/2013 00:00:00 | ♁  | 08°59'29" ♄ | -20°06'55" | 03°01'20"  | -00°00'04" | 32.257 |
| 18/09/2013 00:00:00 | ♁  | 08°29'50" ♋ | -14°20'01" | 00°00'00"  | -00°06'53" | 0.003  |
| 18/09/2013 00:00:00 | ♅  | 10°46'33" ♍ | -02°28'08" | 05°27'31"  | -00°02'43" | 16.654 |
| 18/09/2013 00:00:00 | ♁  | 11°13'25" ♉ | 18°27'24"  | -04°31'12" | 00°06'42"  | 0.003  |
| 18/09/2013 00:00:00 | T♁ | 08°29'50" ♋ | -14°20'01" | 00°00'00"  | -00°06'53" | 0.003  |
| 18/09/2013 00:00:00 | T♁ | 01°55'41" ♋ | 14°44'35"  | -05°06'35" | -00°30'08" | 0.003  |
| 18/09/2013 00:00:00 | X  | 22°39'41" ♌ | -03°21'09" | -13°05'09" | -00°00'31" | 95.581 |
| 18/09/2013 00:00:00 | Y  | 24°17'29" ♌ | 07°11'31"  | -11°59'45" | -00°00'16" | 85.960 |
| 19/09/2013 00:00:00 | ♁  | 26°13'27" ♋ | 01°30'02"  | 00°00'00"  | 00°58'33"  | 1.005  |
| 19/09/2013 00:00:00 | ♃  | 20°09'05" ♍ | -00°21'45" | 03°50'46"  | 14°02'26"  | 0.002  |
| 19/09/2013 00:00:00 | ♁  | 15°20'51" ♉ | -06°32'46" | -00°32'45" | 01°29'40"  | 1.273  |
| 19/09/2013 00:00:00 | ♀  | 08°54'09" ♋ | -15°41'39" | -01°17'56" | 01°08'37"  | 0.995  |
| 19/09/2013 00:00:00 | ♂  | 13°50'38" ♋ | 17°46'59"  | 01°09'47"  | 00°37'20"  | 2.205  |
| 19/09/2013 00:00:00 | ♃  | 16°49'32" ♉ | 22°17'02"  | -00°05'35" | 00°08'21"  | 5.421  |
| 19/09/2013 00:00:00 | ♅  | 08°46'01" ♋ | -12°20'32" | 02°11'33"  | 00°05'54"  | 10.573 |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 19/09/2013 00:00:00 | ♃ | 11°06'39" ♏ | 03°43'33"  | -00°43'39" | -00°02'18" | 19.069 |
| 19/09/2013 00:00:00 | ♃ | 03°21'24" ♏ | -10°54'56" | -00°41'18" | -00°01'29" | 29.054 |
| 19/09/2013 00:00:00 | ♃ | 08°59'25" ♏ | -20°07'07" | 03°01'08"  | -00°00'03" | 32.274 |
| 19/09/2013 00:00:00 | ♃ | 08°23'16" ♏ | -14°17'55" | 00°00'00"  | -00°06'05" | 0.003  |
| 19/09/2013 00:00:00 | ♃ | 10°43'50" ♏ | -02°29'17" | 05°27'22"  | -00°02'42" | 16.659 |
| 19/09/2013 00:00:00 | ♃ | 11°20'07" ♏ | 18°26'26"  | -04°31'37" | 00°06'42"  | 0.003  |
| 19/09/2013 00:00:00 | ♃ | 08°23'16" ♏ | -14°17'55" | 00°00'00"  | -00°06'05" | 0.003  |
| 19/09/2013 00:00:00 | ♃ | 01°09'00" ♏ | 14°54'37"  | -05°06'34" | -01°06'33" | 0.003  |
| 19/09/2013 00:00:00 | X | 22°39'09" ♏ | -03°21'22" | -13°05'11" | -00°00'31" | 95.574 |
| 19/09/2013 00:00:00 | Y | 24°17'13" ♏ | 07°11'20"  | -11°59'53" | -00°00'16" | 85.946 |
| 20/09/2013 00:00:00 | ♃ | 27°12'02" ♏ | 01°06'46"  | -00°00'00" | 00°58'35"  | 1.004  |
| 20/09/2013 00:00:00 | ♃ | 04°02'30" ♏ | 04°16'35"  | 02°54'34"  | 13°43'47"  | 0.003  |
| 20/09/2013 00:00:00 | ♃ | 16°50'00" ♏ | -07°14'09" | -00°40'25" | 01°28'36"  | 1.263  |
| 20/09/2013 00:00:00 | ♃ | 10°02'43" ♏ | -16°07'24" | -01°22'01" | 01°08'31"  | 0.987  |
| 20/09/2013 00:00:00 | ♃ | 14°27'57" ♏ | 17°36'39"  | 01°10'20"  | 00°37'17"  | 2.200  |
| 20/09/2013 00:00:00 | ♃ | 16°57'49" ♏ | 22°16'06"  | -00°05'30" | 00°08'13"  | 5.406  |
| 20/09/2013 00:00:00 | ♃ | 08°51'58" ♏ | -12°22'34" | 02°11'23"  | 00°05'57"  | 10.584 |
| 20/09/2013 00:00:00 | ♃ | 11°04'19" ♏ | 03°42'38"  | -00°43'39" | -00°02'19" | 19.065 |
| 20/09/2013 00:00:00 | ♃ | 03°19'55" ♏ | -10°55'28" | -00°41'18" | -00°01'28" | 29.061 |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 20/09/2013 00:00:00 | ♁ | 08°59'23" ♁ | -20°07'18" | 03°00'56"  | -00°00'01" | 32.292 |
| 20/09/2013 00:00:00 | ♁ | 08°17'53" ♁ | -14°16'11" | 00°00'00"  | -00°04'35" | 0.003  |
| 20/09/2013 00:00:00 | ♁ | 10°41'08" ♁ | -02°30'26" | 05°27'13"  | -00°02'41" | 16.665 |
| 20/09/2013 00:00:00 | ♁ | 11°26'49" ♁ | 18°25'28"  | -04°32'03" | 00°06'42"  | 0.003  |
| 20/09/2013 00:00:00 | ♁ | 08°17'53" ♁ | -14°16'11" | 00°00'00"  | -00°04'35" | 0.003  |
| 20/09/2013 00:00:00 | ♁ | 29°37'40" ♁ | 15°14'05"  | -05°06'02" | -01°57'23" | 0.003  |
| 20/09/2013 00:00:00 | X | 22°38'37" ♁ | -03°21'35" | -13°05'13" | -00°00'32" | 95.567 |
| 20/09/2013 00:00:00 | Y | 24°16'56" ♁ | 07°11'09"  | -12°00'00" | -00°00'17" | 85.931 |
| 21/09/2013 00:00:00 | ♁ | 28°10'39" ♁ | 00°43'28"  | -00°00'00" | 00°58'37"  | 1.004  |
| 21/09/2013 00:00:00 | ♁ | 17°35'45" ♁ | 08°35'36"  | 01°49'36"  | 13°22'26"  | 0.003  |
| 21/09/2013 00:00:00 | ♁ | 18°18'04" ♁ | -07°54'57" | -00°48'07" | 01°27'31"  | 1.253  |
| 21/09/2013 00:00:00 | ♁ | 11°11'12" ♁ | -16°32'50" | -01°26'07" | 01°08'25"  | 0.980  |
| 21/09/2013 00:00:00 | ♁ | 15°05'13" ♁ | 17°26'14"  | 01°10'53"  | 00°37'14"  | 2.194  |
| 21/09/2013 00:00:00 | ♁ | 17°05'59" ♁ | 22°15'09"  | -00°05'24" | 00°08'06"  | 5.392  |
| 21/09/2013 00:00:00 | ♁ | 08°57'57" ♁ | -12°24'36" | 02°11'14"  | 00°06'00"  | 10.595 |
| 21/09/2013 00:00:00 | ♁ | 11°01'59" ♁ | 03°41'43"  | -00°43'40" | -00°02'20" | 19.061 |
| 21/09/2013 00:00:00 | ♁ | 03°18'28" ♁ | -10°56'00" | -00°41'18" | -00°01'27" | 29.069 |
| 21/09/2013 00:00:00 | ♁ | 08°59'23" ♁ | -20°07'30" | 03°00'45"  | 00°00'00"  | 32.309 |
| 21/09/2013 00:00:00 | ♁ | 08°14'12" ♁ | -14°15'00" | 00°00'00"  | -00°02'45" | 0.003  |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 21/09/2013 00:00:00 | ♁ | 10°38'27" ♉ | -02°31'35" | 05°27'03"  | -00°02'40" | 16.671 |
| 21/09/2013 00:00:00 | ♁ | 11°33'32" ♉ | 18°24'29"  | -04°32'28" | 00°06'42"  | 0.003  |
| 21/09/2013 00:00:00 | ♁ | 08°14'12" ♉ | -14°15'00" | 00°00'00"  | -00°02'45" | 0.003  |
| 21/09/2013 00:00:00 | ♁ | 27°14'43" ♉ | 15°43'32"  | -05°04'32" | -02°46'37" | 0.003  |
| 21/09/2013 00:00:00 | X | 22°38'05" ♉ | -03°21'48" | -13°05'14" | -00°00'32" | 95.560 |
| 21/09/2013 00:00:00 | Y | 24°16'38" ♉ | 07°10'58"  | -12°00'07" | -00°00'17" | 85.916 |
| 22/09/2013 00:00:00 | ♁ | 29°09'18" ♉ | 00°20'09"  | -00°00'00" | 00°58'39"  | 1.004  |
| 22/09/2013 00:00:00 | ♁ | 00°47'09" ♉ | 12°22'27"  | 00°40'15"  | 13°00'23"  | 0.003  |
| 22/09/2013 00:00:00 | ♁ | 19°45'03" ♉ | -08°35'06" | -00°55'48" | 01°26'27"  | 1.242  |
| 22/09/2013 00:00:00 | ♁ | 12°19'34" ♉ | -16°57'53" | -01°30'12" | 01°08'18"  | 0.973  |
| 22/09/2013 00:00:00 | ♁ | 15°42'27" ♉ | 17°15'42"  | 01°11'26"  | 00°37'11"  | 2.189  |
| 22/09/2013 00:00:00 | ♁ | 17°14'02" ♉ | 22°14'14"  | -00°05'18" | 00°07'58"  | 5.377  |
| 22/09/2013 00:00:00 | ♁ | 09°03'59" ♉ | -12°26'40" | 02°11'04"  | 00°06'03"  | 10.606 |
| 22/09/2013 00:00:00 | ♁ | 10°59'38" ♉ | 03°40'48"  | -00°43'40" | -00°02'21" | 19.058 |
| 22/09/2013 00:00:00 | ♁ | 03°17'01" ♉ | -10°56'31" | -00°41'18" | -00°01'26" | 29.076 |
| 22/09/2013 00:00:00 | ♁ | 08°59'25" ♉ | -20°07'41" | 03°00'33"  | 00°00'02"  | 32.326 |
| 22/09/2013 00:00:00 | ♁ | 08°12'23" ♉ | -14°14'24" | 00°00'00"  | -00°00'54" | 0.003  |
| 22/09/2013 00:00:00 | ♁ | 10°35'47" ♉ | -02°32'44" | 05°26'53"  | -00°02'39" | 16.677 |
| 22/09/2013 00:00:00 | ♁ | 11°40'14" ♉ | 18°23'31"  | -04°32'53" | 00°06'42"  | 0.003  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 22/09/2013 00:00:00 | T♄ | 08°12'23" ♍ | -14°14'24" | 00°00'00"  | -00°00'54" | 0.003  |
| 22/09/2013 00:00:00 | T♄ | 24°11'07" ♉ | 16°19'14"  | -05°01'38" | -03°15'59" | 0.003  |
| 22/09/2013 00:00:00 | X  | 22°37'32" ♏ | -03°22'01" | -13°05'16" | -00°00'32" | 95.553 |
| 22/09/2013 00:00:00 | Y  | 24°16'20" ♏ | 07°10'47"  | -12°00'14" | -00°00'18" | 85.902 |
| 23/09/2013 00:00:00 | ☉  | 00°07'59" ♌ | -00°03'10" | -00°00'00" | 00°58'42"  | 1.003  |
| 23/09/2013 00:00:00 | ☾  | 13°36'54" ♏ | 15°27'18"  | -00°29'26" | 12°39'28"  | 0.003  |
| 23/09/2013 00:00:00 | ☿  | 21°10'57" ♌ | -09°14'36" | -01°03'29" | 01°25'21"  | 1.231  |
| 23/09/2013 00:00:00 | ♀  | 13°27'49" ♍ | -17°22'35" | -01°34'17" | 01°08'12"  | 0.965  |
| 23/09/2013 00:00:00 | ♂  | 16°19'37" ♏ | 17°05'06"  | 01°11'58"  | 00°37'08"  | 2.183  |
| 23/09/2013 00:00:00 | ♃  | 17°21'56" ♉ | 22°13'19"  | -00°05'13" | 00°07'50"  | 5.363  |
| 23/09/2013 00:00:00 | ♅  | 09°10'04" ♍ | -12°28'44" | 02°10'55"  | 00°06'06"  | 10.616 |
| 23/09/2013 00:00:00 | ♁  | 10°57'16" ♏ | 03°39'52"  | -00°43'40" | -00°02'21" | 19.055 |
| 23/09/2013 00:00:00 | ♆  | 03°15'35" ♏ | -10°57'02" | -00°41'18" | -00°01'25" | 29.084 |
| 23/09/2013 00:00:00 | ♁  | 08°59'28" ♏ | -20°07'53" | 03°00'22"  | 00°00'04"  | 32.344 |
| 23/09/2013 00:00:00 | ♁  | 08°12'15" ♍ | -14°14'22" | 00°00'00"  | 00°00'34"  | 0.003  |
| 23/09/2013 00:00:00 | ♁  | 10°33'08" ♏ | -02°33'53" | 05°26'43"  | -00°02'37" | 16.684 |
| 23/09/2013 00:00:00 | ♁  | 11°46'56" ♉ | 18°22'32"  | -04°33'17" | 00°06'42"  | 0.003  |
| 23/09/2013 00:00:00 | T♄ | 08°12'15" ♍ | -14°14'22" | 00°00'00"  | 00°00'34"  | 0.003  |
| 23/09/2013 00:00:00 | T♄ | 20°53'03" ♉ | 16°54'48"  | -04°57'23" | -03°14'58" | 0.003  |



Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 23/09/2013 00:00:00 | X  | 22°37'00" ♀ | -03°22'14" | -13°05'17" | -00°00'32" | 95.547 |
| 23/09/2013 00:00:00 | Y  | 24°16'01" ♂ | 07°10'36"  | -12°00'21" | -00°00'18" | 85.887 |
| 24/09/2013 00:00:00 | ☉  | 01°06'42" ♌ | -00°26'32" | -00°00'00" | 00°58'44"  | 1.003  |
| 24/09/2013 00:00:00 | ☾  | 26°06'59" ♂ | 17°43'20"  | -01°36'04" | 12°21'14"  | 0.003  |
| 24/09/2013 00:00:00 | ♀  | 22°35'46" ♌ | -09°53'26" | -01°11'07" | 01°24'14"  | 1.220  |
| 24/09/2013 00:00:00 | ♀  | 14°35'58" ♍ | -17°46'54" | -01°38'22" | 01°08'05"  | 0.958  |
| 24/09/2013 00:00:00 | ♂  | 16°56'44" ♋ | 16°54'24"  | 01°12'31"  | 00°37'05"  | 2.178  |
| 24/09/2013 00:00:00 | ♃  | 17°29'42" ♉ | 22°12'25"  | -00°05'07" | 00°07'42"  | 5.348  |
| 24/09/2013 00:00:00 | ♅  | 09°16'13" ♍ | -12°30'48" | 02°10'46"  | 00°06'09"  | 10.627 |
| 24/09/2013 00:00:00 | ♁  | 10°54'54" ♀ | 03°38'57"  | -00°43'40" | -00°02'22" | 19.052 |
| 24/09/2013 00:00:00 | ♃  | 03°14'10" ♉ | -10°57'33" | -00°41'18" | -00°01'24" | 29.092 |
| 24/09/2013 00:00:00 | ♁  | 08°59'33" ♉ | -20°08'04" | 03°00'10"  | 00°00'06"  | 32.361 |
| 24/09/2013 00:00:00 | ♋  | 08°13'21" ♍ | -14°14'43" | 00°00'00"  | 00°01'29"  | 0.002  |
| 24/09/2013 00:00:00 | ♅  | 10°30'31" ♉ | -02°35'01" | 05°26'33"  | -00°02'36" | 16.691 |
| 24/09/2013 00:00:00 | ♁  | 11°53'39" ♉ | 18°21'33"  | -04°33'42" | 00°06'42"  | 0.003  |
| 24/09/2013 00:00:00 | T♋ | 08°13'21" ♍ | -14°14'43" | 00°00'00"  | 00°01'29"  | 0.002  |
| 24/09/2013 00:00:00 | T♁ | 17°50'05" ♉ | 17°24'48"  | -04°52'29" | -02°47'35" | 0.003  |
| 24/09/2013 00:00:00 | X  | 22°36'27" ♀ | -03°22'27" | -13°05'18" | -00°00'33" | 95.540 |
| 24/09/2013 00:00:00 | Y  | 24°15'42" ♂ | 07°10'25"  | -12°00'28" | -00°00'19" | 85.873 |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 25/09/2013 00:00:00 | ☉ | 02°05'27" ♈ | -00°49'53" | -00°00'00" | 00°58'46"  | 1.003  |
| 25/09/2013 00:00:00 | ☾ | 08°20'40" ♀ | 19°06'39"  | -02°36'54" | 12°06'50"  | 0.003  |
| 25/09/2013 00:00:00 | ♃ | 23°59'26" ♈ | -10°31'32" | -01°18'44" | 01°23'06"  | 1.209  |
| 25/09/2013 00:00:00 | ♄ | 15°44'00" ♉ | -18°10'50" | -01°42'26" | 01°07'58"  | 0.950  |
| 25/09/2013 00:00:00 | ♅ | 17°33'48" ♋ | 16°43'36"  | 01°13'04"  | 00°37'02"  | 2.172  |
| 25/09/2013 00:00:00 | ♆ | 17°37'20" ♌ | 22°11'31"  | -00°05'01" | 00°07'33"  | 5.333  |
| 25/09/2013 00:00:00 | ♇ | 09°22'24" ♍ | -12°32'54" | 02°10'37"  | 00°06'12"  | 10.637 |
| 25/09/2013 00:00:00 | ♈ | 10°52'31" ♉ | 03°38'01"  | -00°43'40" | -00°02'23" | 19.049 |
| 25/09/2013 00:00:00 | ♉ | 03°12'46" ♊ | -10°58'03" | -00°41'18" | -00°01'23" | 29.100 |
| 25/09/2013 00:00:00 | ♊ | 08°59'41" ♋ | -20°08'15" | 02°59'58"  | 00°00'08"  | 32.379 |
| 25/09/2013 00:00:00 | ♋ | 08°15'00" ♌ | -14°15'15" | 00°00'00"  | 00°01'42"  | 0.002  |
| 25/09/2013 00:00:00 | ♌ | 10°27'55" ♍ | -02°36'10" | 05°26'22"  | -00°02'35" | 16.698 |
| 25/09/2013 00:00:00 | ♍ | 12°00'21" ♎ | 18°20'33"  | -04°34'07" | 00°06'42"  | 0.003  |
| 25/09/2013 00:00:00 | ♎ | 08°15'00" ♏ | -14°15'15" | 00°00'00"  | 00°01'42"  | 0.002  |
| 25/09/2013 00:00:00 | ♏ | 15°21'48" ♐ | 17°47'04"  | -04°47'48" | -02°08'25" | 0.003  |
| 25/09/2013 00:00:00 | ♐ | 22°35'53" ♑ | -03°22'40" | -13°05'19" | -00°00'33" | 95.535 |
| 25/09/2013 00:00:00 | ♑ | 24°15'22" ♒ | 07°10'14"  | -12°00'34" | -00°00'20" | 85.859 |
| 26/09/2013 00:00:00 | ☉ | 03°04'15" ♈ | -01°13'15" | -00°00'00" | 00°58'48"  | 1.003  |
| 26/09/2013 00:00:00 | ☾ | 20°22'11" ♀ | 19°35'55"  | -03°29'46" | 11°56'59"  | 0.003  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 26/09/2013 00:00:00 | ♀  | 25°21'57" ♈ | -11°08'55" | -01°26'16" | 01°21'56"  | 1.197  |
| 26/09/2013 00:00:00 | ♀  | 16°51'55" ♎ | -18°34'22" | -01°46'29" | 01°07'51"  | 0.943  |
| 26/09/2013 00:00:00 | ♂  | 18°10'49" ♏ | 16°32'44"  | 01°13'36"  | 00°36'59"  | 2.166  |
| 26/09/2013 00:00:00 | ♃  | 17°44'50" ♉ | 22°10'38"  | -00°04'55" | 00°07'25"  | 5.318  |
| 26/09/2013 00:00:00 | ♅  | 09°28'37" ♎ | -12°34'59" | 02°10'29"  | 00°06'15"  | 10.647 |
| 26/09/2013 00:00:00 | ♁  | 10°50'08" ♈ | 03°37'05"  | -00°43'40" | -00°02'23" | 19.047 |
| 26/09/2013 00:00:00 | ♆  | 03°11'24" ♏ | -10°58'33" | -00°41'18" | -00°01'22" | 29.109 |
| 26/09/2013 00:00:00 | ♁  | 08°59'50" ♈ | -20°08'26" | 02°59'47"  | 00°00'10"  | 32.396 |
| 26/09/2013 00:00:00 | ♁  | 08°16'32" ♎ | -14°15'45" | 00°00'00"  | 00°01'14"  | 0.002  |
| 26/09/2013 00:00:00 | ♃  | 10°25'21" ♏ | -02°37'18" | 05°26'11"  | -00°02'33" | 16.706 |
| 26/09/2013 00:00:00 | ♁  | 12°07'03" ♉ | 18°19'34"  | -04°34'31" | 00°06'42"  | 0.003  |
| 26/09/2013 00:00:00 | T♁ | 08°16'32" ♎ | -14°15'45" | 00°00'00"  | 00°01'14"  | 0.002  |
| 26/09/2013 00:00:00 | T♁ | 13°31'55" ♉ | 18°02'21"  | -04°43'54" | -01°33'03" | 0.003  |
| 26/09/2013 00:00:00 | X  | 22°35'20" ♈ | -03°22'52" | -13°05'20" | -00°00'33" | 95.529 |
| 26/09/2013 00:00:00 | Y  | 24°15'02" ♏ | 07°10'03"  | -12°00'41" | -00°00'20" | 85.845 |
| 27/09/2013 00:00:00 | ♁  | 04°03'05" ♈ | -01°36'37" | -00°00'00" | 00°58'51"  | 1.002  |
| 27/09/2013 00:00:00 | ♃  | 02°16'18" ♉ | 19°11'58"  | -04°13'01" | 11°52'03"  | 0.003  |
| 27/09/2013 00:00:00 | ♀  | 26°43'18" ♈ | -11°45'31" | -01°33'45" | 01°20'43"  | 1.184  |
| 27/09/2013 00:00:00 | ♀  | 17°59'43" ♎ | -18°57'29" | -01°50'31" | 01°07'44"  | 0.935  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 27/09/2013 00:00:00 | ♂  | 18°47'48" ♏ | 16°21'46"  | 01°14'09"  | 00°36'56"  | 2.161  |
| 27/09/2013 00:00:00 | ♃  | 17°52'11" ♉ | 22°09'46"  | -00°04'49" | 00°07'16"  | 5.303  |
| 27/09/2013 00:00:00 | ♅  | 09°34'54" ♍ | -12°37'06" | 02°10'20"  | 00°06'17"  | 10.657 |
| 27/09/2013 00:00:00 | ♁  | 10°47'44" ♋ | 03°36'08"  | -00°43'40" | -00°02'24" | 19.045 |
| 27/09/2013 00:00:00 | ♆  | 03°10'02" ♎ | -10°59'02" | -00°41'18" | -00°01'21" | 29.118 |
| 27/09/2013 00:00:00 | ♁  | 09°00'01" ♋ | -20°08'37" | 02°59'35"  | 00°00'11"  | 32.414 |
| 27/09/2013 00:00:00 | ♏  | 08°17'18" ♏ | -14°15'59" | 00°00'00"  | 00°00'13"  | 0.002  |
| 27/09/2013 00:00:00 | ♃  | 10°22'48" ♋ | -02°38'25" | 05°25'59"  | -00°02'32" | 16.714 |
| 27/09/2013 00:00:00 | ♁  | 12°13'46" ♉ | 18°18'34"  | -04°34'55" | 00°06'42"  | 0.003  |
| 27/09/2013 00:00:00 | ♏♁ | 08°17'18" ♏ | -14°15'59" | 00°00'00"  | 00°00'13"  | 0.002  |
| 27/09/2013 00:00:00 | ♁♃ | 12°10'51" ♉ | 18°12'59"  | -04°40'47" | -01°12'00" | 0.003  |
| 27/09/2013 00:00:00 | X  | 22°34'46" ♋ | -03°23'05" | -13°05'21" | -00°00'33" | 95.524 |
| 27/09/2013 00:00:00 | Y  | 24°14'41" ♎ | 07°09'52"  | -12°00'48" | -00°00'21" | 85.832 |
| 28/09/2013 00:00:00 | ♁  | 05°01'57" ♉ | -01°59'58" | -00°00'00" | 00°58'53"  | 1.002  |
| 28/09/2013 00:00:00 | ♃  | 14°07'58" ♉ | 17°57'24"  | -04°45'17" | 11°52'05"  | 0.003  |
| 28/09/2013 00:00:00 | ♁  | 28°03'24" ♉ | -12°21'19" | -01°41'08" | 01°19'29"  | 1.171  |
| 28/09/2013 00:00:00 | ♀  | 19°07'23" ♏ | -19°20'11" | -01°54'31" | 01°07'37"  | 0.928  |
| 28/09/2013 00:00:00 | ♂  | 19°24'42" ♏ | 16°10'44"  | 01°14'42"  | 00°36'53"  | 2.155  |
| 28/09/2013 00:00:00 | ♃  | 17°59'24" ♉ | 22°08'55"  | -00°04'44" | 00°07'08"  | 5.288  |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 28/09/2013 00:00:00 | ♃ | 09°41'13" ♎ | -12°39'13" | 02°10'12"  | 00°06'20"  | 10.666 |
| 28/09/2013 00:00:00 | ♃ | 10°45'20" ♎ | 03°35'12"  | -00°43'40" | -00°02'24" | 19.043 |
| 28/09/2013 00:00:00 | ♃ | 03°08'42" ♎ | -10°59'31" | -00°41'18" | -00°01'19" | 29.127 |
| 28/09/2013 00:00:00 | ♃ | 09°00'13" ♎ | -20°08'48" | 02°59'23"  | 00°00'13"  | 32.431 |
| 28/09/2013 00:00:00 | ♃ | 08°16'52" ♎ | -14°15'51" | 00°00'00"  | -00°01'08" | 0.002  |
| 28/09/2013 00:00:00 | ♃ | 10°20'17" ♎ | -02°39'33" | 05°25'48"  | -00°02'30" | 16.722 |
| 28/09/2013 00:00:00 | ♃ | 12°20'28" ♎ | 18°17'35"  | -04°35'19" | 00°06'42"  | 0.003  |
| 28/09/2013 00:00:00 | ♃ | 08°16'52" ♎ | -14°15'51" | 00°00'00"  | -00°01'08" | 0.002  |
| 28/09/2013 00:00:00 | ♃ | 11°01'29" ♎ | 18°21'37"  | -04°37'58" | -01°10'01" | 0.003  |
| 28/09/2013 00:00:00 | X | 22°34'12" ♎ | -03°23'18" | -13°05'21" | -00°00'34" | 95.518 |
| 28/09/2013 00:00:00 | Y | 24°14'19" ♎ | 07°09'40"  | -12°00'54" | -00°00'21" | 85.818 |
| 29/09/2013 00:00:00 | ♃ | 06°00'51" ♎ | -02°23'18" | -00°00'00" | 00°58'55"  | 1.002  |
| 29/09/2013 00:00:00 | ♃ | 26°02'04" ♎ | 15°56'05"  | -05°05'25" | 11°56'52"  | 0.003  |
| 29/09/2013 00:00:00 | ♃ | 29°22'15" ♎ | -12°56'18" | -01°48'25" | 01°18'11"  | 1.158  |
| 29/09/2013 00:00:00 | ♃ | 20°14'57" ♎ | -19°42'28" | -01°58'31" | 01°07'29"  | 0.920  |
| 29/09/2013 00:00:00 | ♃ | 20°01'34" ♎ | 15°59'36"  | 01°15'14"  | 00°36'50"  | 2.149  |
| 29/09/2013 00:00:00 | ♃ | 18°06'28" ♎ | 22°08'04"  | -00°04'38" | 00°06'59"  | 5.273  |
| 29/09/2013 00:00:00 | ♃ | 09°47'35" ♎ | -12°41'20" | 02°10'04"  | 00°06'23"  | 10.675 |
| 29/09/2013 00:00:00 | ♃ | 10°42'55" ♎ | 03°34'15"  | -00°43'40" | -00°02'24" | 19.042 |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 29/09/2013 00:00:00 | ♁  | 03°07'22" ♈ | -11°00'00" | -00°41'18" | -00°01'18" | 29.136 |
| 29/09/2013 00:00:00 | ♁  | 09°00'28" ♈ | -20°08'58" | 02°59'12"  | 00°00'15"  | 32.449 |
| 29/09/2013 00:00:00 | ♁  | 08°14'59" ♎ | -14°15'15" | 00°00'00"  | -00°02'35" | 0.002  |
| 29/09/2013 00:00:00 | ♁  | 10°17'47" ♈ | -02°40'40" | 05°25'35"  | -00°02'28" | 16.730 |
| 29/09/2013 00:00:00 | ♁  | 12°27'11" ♉ | 18°16'35"  | -04°35'43" | 00°06'42"  | 0.003  |
| 29/09/2013 00:00:00 | T♁ | 08°14'59" ♎ | -14°15'15" | 00°00'00"  | -00°02'35" | 0.002  |
| 29/09/2013 00:00:00 | T♁ | 09°44'27" ♉ | 18°30'39"  | -04°34'44" | -01°26'54" | 0.003  |
| 29/09/2013 00:00:00 | X  | 22°33'38" ♈ | -03°23'31" | -13°05'22" | -00°00'34" | 95.514 |
| 29/09/2013 00:00:00 | Y  | 24°13'57" ♉ | 07°09'29"  | -12°01'01" | -00°00'22" | 85.805 |
| 30/09/2013 00:00:00 | ♁  | 06°59'48" ♈ | -02°46'37" | -00°00'00" | 00°58'57"  | 1.002  |
| 30/09/2013 00:00:00 | ♁  | 08°03'08" ♉ | 13°12'57"  | -05°12'25" | 12°05'55"  | 0.003  |
| 30/09/2013 00:00:00 | ♁  | 00°39'45" ♎ | -13°30'24" | -01°55'35" | 01°16'49"  | 1.145  |
| 30/09/2013 00:00:00 | ♁  | 21°22'22" ♎ | -20°04'17" | -02°02'29" | 01°07'21"  | 0.913  |
| 30/09/2013 00:00:00 | ♁  | 20°38'22" ♉ | 15°48'25"  | 01°15'47"  | 00°36'46"  | 2.143  |
| 30/09/2013 00:00:00 | ♁  | 18°13'23" ♉ | 22°07'14"  | -00°04'32" | 00°06'50"  | 5.258  |
| 30/09/2013 00:00:00 | ♁  | 09°53'59" ♎ | -12°43'28" | 02°09'56"  | 00°06'25"  | 10.685 |
| 30/09/2013 00:00:00 | ♁  | 10°40'31" ♈ | 03°33'19"  | -00°43'40" | -00°02'25" | 19.041 |
| 30/09/2013 00:00:00 | ♁  | 03°06'04" ♈ | -11°00'28" | -00°41'17" | -00°01'17" | 29.146 |
| 30/09/2013 00:00:00 | ♁  | 09°00'44" ♈ | -20°09'09" | 02°59'00"  | 00°00'17"  | 32.467 |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 30/09/2013 00:00:00 | ♏ | 08°11'45" ♍ | -14°14'12" | 00°00'00"  | -00°03'50" | 0.002  |
| 30/09/2013 00:00:00 | ♋ | 10°15'19" ♏ | -02°41'46" | 05°25'23"  | -00°02'27" | 16.739 |
| 30/09/2013 00:00:00 | ♌ | 12°33'53" ♎ | 18°15'35"  | -04°36'07" | 00°06'42"  | 0.003  |
| 30/09/2013 00:00:00 | ♏ | 08°11'45" ♍ | -14°14'12" | 00°00'00"  | -00°03'50" | 0.002  |
| 30/09/2013 00:00:00 | ♌ | 08°03'01" ♎ | 18°41'35"  | -04°30'21" | -01°57'31" | 0.003  |
| 30/09/2013 00:00:00 | X | 22°33'04" ♏ | -03°23'43" | -13°05'22" | -00°00'34" | 95.509 |
| 30/09/2013 00:00:00 | Y | 24°13'34" ♏ | 07°09'18"  | -12°01'07" | -00°00'22" | 85.792 |
| 01/10/2013 00:00:00 | ♏ | 07°58'47" ♏ | -03°09'55" | -00°00'00" | 00°58'59"  | 1.001  |
| 01/10/2013 00:00:00 | ♎ | 20°15'04" ♏ | 09°53'47"  | -05°05'32" | 12°18'29"  | 0.003  |
| 01/10/2013 00:00:00 | ♏ | 01°55'53" ♎ | -14°03'36" | -02°02'37" | 01°15'23"  | 1.131  |
| 01/10/2013 00:00:00 | ♏ | 22°29'40" ♎ | -20°25'40" | -02°06'25" | 01°07'14"  | 0.906  |
| 01/10/2013 00:00:00 | ♏ | 21°15'07" ♏ | 15°37'08"  | 01°16'20"  | 00°36'43"  | 2.137  |
| 01/10/2013 00:00:00 | ♎ | 18°20'09" ♎ | 22°06'26"  | -00°04'26" | 00°06'41"  | 5.243  |
| 01/10/2013 00:00:00 | ♎ | 10°00'26" ♎ | -12°45'36" | 02°09'48"  | 00°06'27"  | 10.693 |
| 01/10/2013 00:00:00 | ♏ | 10°38'05" ♏ | 03°32'22"  | -00°43'40" | -00°02'25" | 19.040 |
| 01/10/2013 00:00:00 | ♏ | 03°04'47" ♏ | -11°00'55" | -00°41'17" | -00°01'16" | 29.156 |
| 01/10/2013 00:00:00 | ♎ | 09°01'03" ♏ | -20°09'19" | 02°58'49"  | 00°00'19"  | 32.484 |
| 01/10/2013 00:00:00 | ♏ | 08°07'26" ♎ | -14°12'49" | 00°00'00"  | -00°04'40" | 0.002  |
| 01/10/2013 00:00:00 | ♋ | 10°12'53" ♏ | -02°42'53" | 05°25'10"  | -00°02'25" | 16.747 |

Ephemerides year 2013




















|                     |   |             |            |            |                      |        |
|---------------------|---|-------------|------------|------------|----------------------|--------|
| 01/10/2013 00:00:00 | ☾ | 12°40'36" ☾ | 18°14'34"  | -04°36'31" | 00°06'42"            | 0.003  |
| 01/10/2013 00:00:00 | ♁ | 08°07'26" ♁ | -14°12'49" |            | 00°00'00" -00°04'40" | 0.002  |
| 01/10/2013 00:00:00 | ♁ | 05°48'26" ☾ | 18°54'27"  | -04°24'16" | -02°30'49"           | 0.003  |
| 01/10/2013 00:00:00 | X | 22°32'29" ♁ | -03°23'56" | -13°05'23" | -00°00'34"           | 95.505 |
| 01/10/2013 00:00:00 | Y | 24°13'11" ☾ | 07°09'06"  | -12°01'13" | -00°00'23"           | 85.779 |
| 02/10/2013 00:00:00 | ☉ | 08°57'48" ☾ | -03°33'10" | -00°00'00" | 00°59'02"            | 1.001  |
| 02/10/2013 00:00:00 | ☾ | 02°40'59" ♁ | 06°05'27"  | -04°44'17" | 12°33'40"            | 0.003  |
| 02/10/2013 00:00:00 | ♀ | 03°10'32" ♁ | -14°35'52" | -02°09'29" | 01°13'53"            | 1.117  |
| 02/10/2013 00:00:00 | ♀ | 23°36'50" ♁ | -20°46'35" | -02°10'19" | 01°07'05"            | 0.898  |
| 02/10/2013 00:00:00 | ♂ | 21°51'49" ♁ | 15°25'48"  | 01°16'53"  | 00°36'39"            | 2.131  |
| 02/10/2013 00:00:00 | ♃ | 18°26'46" ☾ | 22°05'38"  | -00°04'20" | 00°06'32"            | 5.228  |
| 02/10/2013 00:00:00 | ♃ | 10°06'55" ♁ | -12°47'45" | 02°09'40"  | 00°06'30"            | 10.702 |
| 02/10/2013 00:00:00 | ♃ | 10°35'40" ♁ | 03°31'25"  | -00°43'40" | -00°02'25"           | 19.040 |
| 02/10/2013 00:00:00 | ♃ | 03°03'31" ♁ | -11°01'23" | -00°41'17" | -00°01'15"           | 29.166 |
| 02/10/2013 00:00:00 | ♃ | 09°01'23" ♁ | -20°09'29" | 02°58'37"  | 00°00'21"            | 32.502 |
| 02/10/2013 00:00:00 | ♁ | 08°02'34" ♁ | -14°11'14" | 00°00'00"  | -00°04'57"           | 0.002  |
| 02/10/2013 00:00:00 | ♃ | 10°10'29" ♁ | -02°43'59" | 05°24'57"  | -00°02'23"           | 16.757 |
| 02/10/2013 00:00:00 | ☾ | 12°47'18" ☾ | 18°13'34"  | -04°36'54" | 00°06'42"            | 0.003  |
| 02/10/2013 00:00:00 | ♁ | 08°02'34" ♁ | -14°11'14" |            | 00°00'00" -00°04'57" | 0.002  |



Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 02/10/2013 00:00:00 | T♄ | 03°05'53" ♉ | 19°07'32"  | -04°16'29" | -02°50'33" | 0.003  |
| 02/10/2013 00:00:00 | X  | 22°31'54" ♏ | -03°24'08" | -13°05'23" | -00°00'34" | 95.501 |
| 02/10/2013 00:00:00 | Y  | 24°12'47" ♏ | 07°08'55"  | -12°01'19" | -00°00'24" | 85.767 |
| 03/10/2013 00:00:00 | ☉  | 09°56'51" ♈ | -03°56'23" | -00°00'00" | 00°59'04"  | 1.001  |
| 03/10/2013 00:00:00 | ☾  | 15°22'55" ♏ | 01°56'09"  | -04°08'44" | 12°50'19"  | 0.003  |
| 03/10/2013 00:00:00 | ♀  | 04°23'38" ♏ | -15°07'08" | -02°16'11" | 01°12'17"  | 1.102  |
| 03/10/2013 00:00:00 | ♀  | 24°43'52" ♏ | -21°07'02" | -02°14'12" | 01°06'57"  | 0.890  |
| 03/10/2013 00:00:00 | ♂  | 22°28'27" ♏ | 15°14'23"  | 01°17'25"  | 00°36'36"  | 2.124  |
| 03/10/2013 00:00:00 | ♃  | 18°33'14" ♉ | 22°04'51"  | -00°04'14" | 00°06'23"  | 5.213  |
| 03/10/2013 00:00:00 | ♅  | 10°13'26" ♏ | -12°49'54" | 02°09'33"  | 00°06'32"  | 10.711 |
| 03/10/2013 00:00:00 | ♁  | 10°33'14" ♏ | 03°30'28"  | -00°43'40" | -00°02'25" | 19.040 |
| 03/10/2013 00:00:00 | ♆  | 03°02'16" ♏ | -11°01'49" | -00°41'17" | -00°01'13" | 29.176 |
| 03/10/2013 00:00:00 | ♁  | 09°01'45" ♏ | -20°09'39" | 02°58'26"  | 00°00'22"  | 32.520 |
| 03/10/2013 00:00:00 | ♁  | 07°57'44" ♏ | -14°09'40" | 00°00'00"  | -00°04'37" | 0.002  |
| 03/10/2013 00:00:00 | ♁  | 10°08'07" ♏ | -02°45'04" | 05°24'44"  | -00°02'21" | 16.766 |
| 03/10/2013 00:00:00 | ♁  | 12°54'00" ♉ | 18°12'33"  | -04°37'18" | 00°06'42"  | 0.003  |
| 03/10/2013 00:00:00 | T♁ | 07°57'44" ♏ | -14°09'40" | 00°00'00"  | -00°04'37" | 0.002  |
| 03/10/2013 00:00:00 | T♄ | 00°17'02" ♉ | 19°18'14"  | -04°07'53" | -02°41'30" | 0.003  |
| 03/10/2013 00:00:00 | X  | 22°31'19" ♏ | -03°24'21" | -13°05'22" | -00°00'35" | 95.497 |

Ephemerides year 2013

|                     |   |   |            |            |            |        |
|---------------------|---|---|------------|------------|------------|--------|
| 03/10/2013 00:00:00 | Y   | 24°12'23"    | 07°08'43"  | -12°01'25" | -00°00'24" | 85.754 |
| 04/10/2013 00:00:00 |    | 10°55'57"    | -04°19'33" | -00°00'00" | 00°59'06"  | 1.000  |
| 04/10/2013 00:00:00 |    | 28°21'45"    | -02°24'10" | -03°19'42" | 13°07'17"  | 0.003  |
| 04/10/2013 00:00:00 |    | 05°35'04"    | -15°37'23" | -02°22'41" | 01°10'35"  | 1.087  |
| 04/10/2013 00:00:00 |    | 25°50'46"    | -21°27'00" | -02°18'02" | 01°06'49"  | 0.883  |
| 04/10/2013 00:00:00 |    | 23°05'02"    | 15°02'54"  | 01°17'58"  | 00°36'33"  | 2.118  |
| 04/10/2013 00:00:00 |    | 18°39'32"    | 22°04'05"  | -00°04'08" | 00°06'13"  | 5.198  |
| 04/10/2013 00:00:00 |    | 10°20'00"    | -12°52'03" | 02°09'25"  | 00°06'34"  | 10.719 |
| 04/10/2013 00:00:00 |    | 10°30'49"    | 03°29'32"  | -00°43'39" | -00°02'25" | 19.040 |
| 04/10/2013 00:00:00 |    | 03°01'03"    | -11°02'16" | -00°41'17" | -00°01'12" | 29.187 |
| 04/10/2013 00:00:00 |    | 09°02'08"    | -20°09'49" | 02°58'14"  | 00°00'24"  | 32.537 |
| 04/10/2013 00:00:00 |    | 07°53'29"    | -14°08'18" | 00°00'00"  | -00°03'45" | 0.003  |
| 04/10/2013 00:00:00 |   | 10°05'46"   | -02°46'09" | 05°24'31"  | -00°02'19" | 16.776 |
| 04/10/2013 00:00:00 |  | 13°00'43"  | 18°11'32"  | -04°37'41" | 00°06'42"  | 0.003  |
| 04/10/2013 00:00:00 | TΩ  | 07°53'29"  | -14°08'18" | 00°00'00"  | -00°03'45" | 0.003  |
| 04/10/2013 00:00:00 | T♄  | 27°54'07"  | 19°24'53"  | -04°00'16" | -01°59'13" | 0.003  |
| 04/10/2013 00:00:00 | X   | 22°30'44"  | -03°24'33" | -13°05'22" | -00°00'35" | 95.494 |
| 04/10/2013 00:00:00 | Y   | 24°11'58"  | 07°08'32"  | -12°01'31" | -00°00'25" | 85.742 |
| 05/10/2013 00:00:00 |  | 11°55'04"  | -04°42'40" | -00°00'00" | 00°59'08"  | 1.000  |

Ephemerides year 2013

|                     |   |           |   |            |            |            |        |
|---------------------|---|-----------|---|------------|------------|------------|--------|
| 05/10/2013 00:00:00 | ♃ | 11°37'13" | ♈ | -06°43'30" | -02°18'53" | 13°23'26"  | 0.003  |
| 05/10/2013 00:00:00 | ♆ | 06°44'45" | ♍ | -16°06'32" | -02°28'58" | 01°08'45"  | 1.072  |
| 05/10/2013 00:00:00 | ♀ | 26°57'30" | ♍ | -21°46'29" | -02°21'50" | 01°06'40"  | 0.875  |
| 05/10/2013 00:00:00 | ♂ | 23°41'34" | ♏ | 14°51'21"  | 01°18'31"  | 00°36'29"  | 2.112  |
| 05/10/2013 00:00:00 | ♃ | 18°45'42" | ♉ | 22°03'20"  | -00°04'01" | 00°06'04"  | 5.182  |
| 05/10/2013 00:00:00 | ♃ | 10°26'36" | ♍ | -12°54'13" | 02°09'18"  | 00°06'36"  | 10.727 |
| 05/10/2013 00:00:00 | ♃ | 10°28'23" | ♏ | 03°28'35"  | -00°43'39" | -00°02'25" | 19.041 |
| 05/10/2013 00:00:00 | ♃ | 02°59'51" | ♏ | -11°02'41" | -00°41'16" | -00°01'11" | 29.197 |
| 05/10/2013 00:00:00 | ♃ | 09°02'34" | ♏ | -20°09'59" | 02°58'02"  | 00°00'26"  | 32.555 |
| 05/10/2013 00:00:00 | ♏ | 07°50'19" | ♍ | -14°07'17" | 00°00'00"  | -00°02'31" | 0.003  |
| 05/10/2013 00:00:00 | ♃ | 10°03'28" | ♏ | -02°47'13" | 05°24'17"  | -00°02'17" | 16.786 |
| 05/10/2013 00:00:00 | ♃ | 13°07'25" | ♉ | 18°10'31"  | -04°38'04" | 00°06'42"  | 0.003  |
| 05/10/2013 00:00:00 | ♏ | 07°50'19" | ♍ | -14°07'17" | 00°00'00"  | -00°02'31" | 0.003  |
| 05/10/2013 00:00:00 | ♃ | 26°26'21" | ♏ | 19°27'45"  | -03°55'35" | -00°53'52" | 0.003  |
| 05/10/2013 00:00:00 | X | 22°30'09" | ♏ | -03°24'46" | -13°05'22" | -00°00'35" | 95.491 |
| 05/10/2013 00:00:00 | Y | 24°11'32" | ♏ | 07°08'20"  | -12°01'37" | -00°00'25" | 85.730 |
| 06/10/2013 00:00:00 | ♃ | 12°54'14" | ♈ | -05°05'44" | -00°00'00" | 00°59'10"  | 1.000  |
| 06/10/2013 00:00:00 | ♃ | 25°08'02" | ♈ | -10°47'50" | -01°09'06" | 13°37'50"  | 0.003  |
| 06/10/2013 00:00:00 | ♆ | 07°52'33" | ♍ | -16°34'34" | -02°35'00" | 01°06'47"  | 1.056  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 06/10/2013 00:00:00 | ♀  | 28°04'06" ♍ | -22°05'27" | -02°25'35" | 01°06'31"  | 0.868  |
| 06/10/2013 00:00:00 | ♂  | 24°18'01" ♋ | 14°39'44"  | 01°19'04"  | 00°36'26"  | 2.106  |
| 06/10/2013 00:00:00 | ♃  | 18°51'41" ♉ | 22°02'37"  | -00°03'55" | 00°05'54"  | 5.167  |
| 06/10/2013 00:00:00 | ♅  | 10°33'14" ♌ | -12°56'23" | 02°09'11"  | 00°06'39"  | 10.735 |
| 06/10/2013 00:00:00 | ♁  | 10°25'58" ♈ | 03°27'38"  | -00°43'39" | -00°02'25" | 19.041 |
| 06/10/2013 00:00:00 | ♃  | 02°58'40" ♉ | -11°03'07" | -00°41'16" | -00°01'09" | 29.209 |
| 06/10/2013 00:00:00 | ♁  | 09°03'02" ♈ | -20°10'09" | 02°57'51"  | 00°00'28"  | 32.573 |
| 06/10/2013 00:00:00 | ♋  | 07°48'28" ♌ | -14°06'41" | 00°00'00"  | -00°01'09" | 0.003  |
| 06/10/2013 00:00:00 | ♅  | 10°01'11" ♌ | -02°48'17" | 05°24'02"  | -00°02'15" | 16.796 |
| 06/10/2013 00:00:00 | ♁  | 13°14'08" ♉ | 18°09'30"  | -04°38'27" | 00°06'42"  | 0.003  |
| 06/10/2013 00:00:00 | T♋ | 07°48'28" ♌ | -14°06'41" | 00°00'00"  | -00°01'09" | 0.003  |
| 06/10/2013 00:00:00 | T♁ | 26°08'03" ♈ | 19°27'53"  | -03°54'57" | 00°16'33"  | 0.003  |
| 06/10/2013 00:00:00 | X  | 22°29'33" ♈ | -03°24'58" | -13°05'21" | -00°00'35" | 95.488 |
| 06/10/2013 00:00:00 | Y  | 24°11'06" ♉ | 07°08'09"  | -12°01'43" | -00°00'26" | 85.718 |
| 07/10/2013 00:00:00 | ♁  | 13°53'25" ♈ | -05°28'44" | -00°00'00" | 00°59'12"  | 1.000  |
| 07/10/2013 00:00:00 | ♃  | 08°52'06" ♌ | -14°21'35" | 00°05'53"  | 13°49'51"  | 0.003  |
| 07/10/2013 00:00:00 | ♁  | 08°58'18" ♌ | -17°01'23" | -02°40'46" | 01°04'40"  | 1.040  |
| 07/10/2013 00:00:00 | ♀  | 29°10'33" ♌ | -22°23'55" | -02°29'18" | 01°06'21"  | 0.860  |
| 07/10/2013 00:00:00 | ♂  | 24°54'26" ♋ | 14°28'03"  | 01°19'36"  | 00°36'22"  | 2.099  |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 07/10/2013 00:00:00 | ♃ | 18°57'31" ♉ | 22°01'54"  | -00°03'49" | 00°05'45"  | 5.152  |
| 07/10/2013 00:00:00 | ♃ | 10°39'54" ♉ | -12°58'33" | 02°09'04"  | 00°06'41"  | 10.742 |
| 07/10/2013 00:00:00 | ♃ | 10°23'32" ♉ | 03°26'42"  | -00°43'38" | -00°02'25" | 19.042 |
| 07/10/2013 00:00:00 | ♃ | 02°57'31" ♉ | -11°03'31" | -00°41'16" | -00°01'08" | 29.220 |
| 07/10/2013 00:00:00 | ♃ | 09°03'31" ♉ | -20°10'18" | 02°57'39"  | 00°00'30"  | 32.590 |
| 07/10/2013 00:00:00 | ♃ | 07°47'57" ♉ | -14°06'30" | 00°00'00"  | 00°00'05"  | 0.003  |
| 07/10/2013 00:00:00 | ♃ | 09°58'57" ♉ | -02°49'21" | 05°23'48"  | -00°02'12" | 16.806 |
| 07/10/2013 00:00:00 | ♃ | 13°20'50" ♉ | 18°08'28"  | -04°38'50" | 00°06'42"  | 0.003  |
| 07/10/2013 00:00:00 | ♃ | 07°47'57" ♉ | -14°06'30" | 00°00'00"  | 00°00'05"  | 0.003  |
| 07/10/2013 00:00:00 | ♃ | 26°55'36" ♉ | 19°25'52"  | -03°58'11" | 01°15'35"  | 0.003  |
| 07/10/2013 00:00:00 | X | 22°28'58" ♉ | -03°25'10" | -13°05'21" | -00°00'35" | 95.485 |
| 07/10/2013 00:00:00 | Y | 24°10'40" ♉ | 07°07'57"  | -12°01'48" | -00°00'26" | 85.706 |
| 08/10/2013 00:00:00 | ♃ | 14°52'39" ♉ | -05°51'39" | -00°00'00" | 00°59'14"  | 0.999  |
| 08/10/2013 00:00:00 | ♃ | 22°46'52" ♉ | -17°08'55" | 01°21'35"  | 13°59'14"  | 0.002  |
| 08/10/2013 00:00:00 | ♃ | 10°01'51" ♉ | -17°26'57" | -02°46'13" | 01°02'23"  | 1.024  |
| 08/10/2013 00:00:00 | ♃ | 00°16'50" ♉ | -22°41'52" | -02°32'57" | 01°06'12"  | 0.853  |
| 08/10/2013 00:00:00 | ♃ | 25°30'46" ♉ | 14°16'19"  | 01°20'09"  | 00°36'18"  | 2.093  |
| 08/10/2013 00:00:00 | ♃ | 19°03'12" ♉ | 22°01'13"  | -00°03'43" | 00°05'35"  | 5.136  |
| 08/10/2013 00:00:00 | ♃ | 10°46'36" ♉ | -13°00'44" | 02°08'58"  | 00°06'43"  | 10.750 |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 08/10/2013 00:00:00 | ♃ | 10°21'07" ♏ | 03°25'45"  | -00°43'38" | -00°02'24" | 19.044 |
| 08/10/2013 00:00:00 | ♃ | 02°56'23" ♏ | -11°03'55" | -00°41'15" | -00°01'06" | 29.231 |
| 08/10/2013 00:00:00 | ♃ | 09°04'02" ♏ | -20°10'27" | 02°57'28"  | 00°00'32"  | 32.608 |
| 08/10/2013 00:00:00 | ♃ | 07°48'32" ♏ | -14°06'42" | 00°00'00"  | 00°01'00"  | 0.003  |
| 08/10/2013 00:00:00 | ♃ | 09°56'45" ♏ | -02°50'23" | 05°23'33"  | -00°02'10" | 16.817 |
| 08/10/2013 00:00:00 | ♃ | 13°27'33" ♏ | 18°07'27"  | -04°39'13" | 00°06'42"  | 0.003  |
| 08/10/2013 00:00:00 | ♃ | 07°48'32" ♏ | -14°06'42" | 00°00'00"  | 00°01'00"  | 0.003  |
| 08/10/2013 00:00:00 | ♃ | 28°31'57" ♏ | 19°21'32"  | -04°04'07" | 01°53'04"  | 0.003  |
| 08/10/2013 00:00:00 | X | 22°28'22" ♏ | -03°25'22" | -13°05'20" | -00°00'35" | 95.483 |
| 08/10/2013 00:00:00 | Y | 24°10'13" ♏ | 07°07'46"  | -12°01'54" | -00°00'27" | 85.695 |
| 09/10/2013 00:00:00 | ♃ | 15°51'54" ♏ | -06°14'30" | -00°00'00" | 00°59'16"  | 0.999  |
| 09/10/2013 00:00:00 | ♃ | 06°49'41" ♏ | -18°55'45" | 02°33'10"  | 14°05'57"  | 0.002  |
| 09/10/2013 00:00:00 | ♃ | 11°03'01" ♏ | -17°51'11" | -02°51'20" | 00°59'53"  | 1.007  |
| 09/10/2013 00:00:00 | ♃ | 01°22'57" ♏ | -22°59'18" | -02°36'34" | 01°06'01"  | 0.845  |
| 09/10/2013 00:00:00 | ♃ | 26°07'03" ♏ | 14°04'31"  | 01°20'42"  | 00°36'15"  | 2.086  |
| 09/10/2013 00:00:00 | ♃ | 19°08'42" ♏ | 22°00'33"  | -00°03'36" | 00°05'25"  | 5.121  |
| 09/10/2013 00:00:00 | ♃ | 10°53'20" ♏ | -13°02'54" | 02°08'51"  | 00°06'45"  | 10.757 |
| 09/10/2013 00:00:00 | ♃ | 10°18'43" ♏ | 03°24'49"  | -00°43'37" | -00°02'24" | 19.046 |
| 09/10/2013 00:00:00 | ♃ | 02°55'17" ♏ | -11°04'19" | -00°41'15" | -00°01'05" | 29.243 |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 09/10/2013 00:00:00 | ♁ | 09°04'36" ♀ | -20°10'37" | 02°57'17"  | 00°00'34"  | 32.625 |
| 09/10/2013 00:00:00 | ♁ | 07°49'47" ♀ | -14°07'06" | 00°00'00"  | 00°01'25"  | 0.003  |
| 09/10/2013 00:00:00 | ♁ | 09°54'36" ♀ | -02°51'25" | 05°23'18"  | -00°02'08" | 16.828 |
| 09/10/2013 00:00:00 | ♁ | 13°34'15" ♀ | 18°06'25"  | -04°39'36" | 00°06'42"  | 0.003  |
| 09/10/2013 00:00:00 | ♁ | 07°49'47" ♀ | -14°07'06" | 00°00'00"  | 00°01'25"  | 0.003  |
| 09/10/2013 00:00:00 | ♁ | 00°33'46" ♀ | 19°14'53"  | -04°11'10" | 02°06'56"  | 0.003  |
| 09/10/2013 00:00:00 | X | 22°27'46" ♀ | -03°25'34" | -13°05'19" | -00°00'35" | 95.481 |
| 09/10/2013 00:00:00 | Y | 24°09'46" ♀ | 07°07'34"  | -12°01'59" | -00°00'27" | 85.684 |
| 10/10/2013 00:00:00 | ♁ | 16°51'12" ♀ | -06°37'16" | 00°00'00"  | 00°59'18"  | 0.999  |
| 10/10/2013 00:00:00 | ♁ | 20°57'58" ♀ | -19°32'13" | 03°35'55"  | 14°10'12"  | 0.002  |
| 10/10/2013 00:00:00 | ♁ | 12°01'34" ♀ | -18°14'00" | -02°56'05" | 00°57'10"  | 0.990  |
| 10/10/2013 00:00:00 | ♁ | 02°28'53" ♀ | -23°16'11" | -02°40'08" | 01°05'51"  | 0.838  |
| 10/10/2013 00:00:00 | ♁ | 26°43'16" ♀ | 13°52'40"  | 01°21'15"  | 00°36'11"  | 2.080  |
| 10/10/2013 00:00:00 | ♁ | 19°14'03" ♀ | 21°59'54"  | -00°03'30" | 00°05'15"  | 5.106  |
| 10/10/2013 00:00:00 | ♁ | 11°00'07" ♀ | -13°05'06" | 02°08'45"  | 00°06'47"  | 10.764 |
| 10/10/2013 00:00:00 | ♁ | 10°16'18" ♀ | 03°23'53"  | -00°43'37" | -00°02'24" | 19.048 |
| 10/10/2013 00:00:00 | ♁ | 02°54'13" ♀ | -11°04'42" | -00°41'15" | -00°01'03" | 29.255 |
| 10/10/2013 00:00:00 | ♁ | 09°05'11" ♀ | -20°10'46" | 02°57'05"  | 00°00'35"  | 32.643 |
| 10/10/2013 00:00:00 | ♁ | 07°51'13" ♀ | -14°07'34" | 00°00'00"  | 00°01'19"  | 0.003  |

Ephemerides year 2013

|                     |    |             |            |             |            |        |
|---------------------|----|-------------|------------|-------------|------------|--------|
| 10/10/2013 00:00:00 | ♄  | 09°52'29" ♉ | -02°52'27" | 05°23'03"   | -00°02'05" | 16.839 |
| 10/10/2013 00:00:00 | ♁  | 13°40'58" ♉ | 18°05'23"  | -04°39'58"  | 00°06'42"  | 0.003  |
| 10/10/2013 00:00:00 | ♁♁ | 07°51'13" ♉ | -14°07'34" | 00°00'00"   | 00°01'19"  | 0.003  |
| 10/10/2013 00:00:00 | ♁♁ | 02°40'35" ♉ | 19°06'27"  | -04°18'06"  | 02°05'30"  | 0.003  |
| 10/10/2013 00:00:00 | X  | 22°27'11" ♉ | -03°25'46" | -13°05'18"  | -00°00'35" | 95.479 |
| 10/10/2013 00:00:00 | Y  | 24°09'18" ♉ | 07°07'23"  | -12°02'05"  | -00°00'27" | 85.673 |
| 11/10/2013 00:00:00 | ♁  | 17°50'31" ♉ | -06°59'57" | 00°00'00"   | 00°59'19"  | 0.998  |
| 11/10/2013 00:00:00 | ♁  | 05°09'21" ♉ | -18°54'35" | 04°25'43"   | 14°12'10"  | 0.002  |
| 11/10/2013 00:00:00 | ♁  | 12°57'17" ♉ | -18°35'19" | -03°00'25"  | 00°54'12"  | 0.973  |
| 11/10/2013 00:00:00 | ♁  | 03°34'39" ♉ | -23°32'32" | 0-02°43'38" | 01°05'40"  | 0.830  |
| 11/10/2013 00:00:00 | ♁  | 27°19'26" ♉ | 13°40'46"  | 01°21'47"   | 00°36'07"  | 2.073  |
| 11/10/2013 00:00:00 | ♁  | 19°19'14" ♉ | 21°59'16"  | -00°03'24"  | 00°05'05"  | 5.090  |
| 11/10/2013 00:00:00 | ♁  | 11°06'54" ♉ | -13°07'17" | 02°08'39"   | 00°06'48"  | 10.770 |
| 11/10/2013 00:00:00 | ♁  | 10°13'54" ♉ | 03°22'57"  | -00°43'36"  | -00°02'23" | 19.050 |
| 11/10/2013 00:00:00 | ♁  | 02°53'09" ♉ | -11°05'04" | -00°41'14"  | -00°01'02" | 29.267 |
| 11/10/2013 00:00:00 | ♁  | 09°05'48" ♉ | -20°10'55" | 02°56'54"   | 00°00'37"  | 32.660 |
| 11/10/2013 00:00:00 | ♁  | 07°52'18" ♉ | -14°07'55" | 00°00'00"   | 00°00'47"  | 0.003  |
| 11/10/2013 00:00:00 | ♁  | 09°50'24" ♉ | -02°53'28" | 05°22'48"   | -00°02'03" | 16.851 |
| 11/10/2013 00:00:00 | ♁  | 13°47'41" ♉ | 18°04'21"  | -04°40'20"  | 00°06'42"  | 0.003  |



Ephemerides year 2013

|                     |    |             |            |             |            |        |
|---------------------|----|-------------|------------|-------------|------------|--------|
| 11/10/2013 00:00:00 | T♄ | 07°52'18" ♍ | -14°07'55" | 00°00'00"   | 00°00'47"  | 0.003  |
| 11/10/2013 00:00:00 | T♄ | 04°46'13" ♉ | 18°56'34"  | -04°24'34"  | 02°08'25"  | 0.003  |
| 11/10/2013 00:00:00 | X  | 22°26'35" ♏ | -03°25'57" | -13°05'17"  | -00°00'35" | 95.478 |
| 11/10/2013 00:00:00 | Y  | 24°08'50" ♎ | 07°07'11"  | -12°02'10"  | -00°00'28" | 85.662 |
| 12/10/2013 00:00:00 | ♁  | 18°49'51" ♈ | -07°22'32" | 00°00'00"   | 00°59'21"  | 0.998  |
| 12/10/2013 00:00:00 | ♂  | 19°21'37" ♉ | -17°05'55" | 04°59'19"   | 14°11'59"  | 0.002  |
| 12/10/2013 00:00:00 | ♀  | 13°49'54" ♍ | -18°55'02" | -03°04'17"  | 00°50'57"  | 0.955  |
| 12/10/2013 00:00:00 | ♀  | 04°40'14" ♏ | -23°48'19" | 0-02°47'04" | 01°05'29"  | 0.822  |
| 12/10/2013 00:00:00 | ♂  | 27°55'32" ♏ | 13°28'49"  | 01°22'20"   | 00°36'03"  | 2.066  |
| 12/10/2013 00:00:00 | ♃  | 19°24'14" ♉ | 21°58'39"  | -00°03'17"  | 00°04'55"  | 5.075  |
| 12/10/2013 00:00:00 | ♃  | 11°13'44" ♍ | -13°09'28" | 02°08'33"   | 00°06'50"  | 10.777 |
| 12/10/2013 00:00:00 | ♃  | 10°11'31" ♏ | 03°22'01"  | -00°43'35"  | -00°02'23" | 19.053 |
| 12/10/2013 00:00:00 | ♃  | 02°52'08" ♏ | -11°05'26" | -00°41'14"  | -00°01'00" | 29.280 |
| 12/10/2013 00:00:00 | ♃  | 09°06'26" ♉ | -20°11'03" | 02°56'42"   | 00°00'39"  | 32.678 |
| 12/10/2013 00:00:00 | ♁  | 07°52'41" ♍ | -14°08'02" | 00°00'00"   | -00°00'02" | 0.003  |
| 12/10/2013 00:00:00 | ♃  | 09°48'22" ♏ | -02°54'28" | 05°22'32"   | -00°02'01" | 16.862 |
| 12/10/2013 00:00:00 | ♃  | 13°54'23" ♉ | 18°03'19"  | -04°40'43"  | 00°06'42"  | 0.003  |
| 12/10/2013 00:00:00 | T♄ | 07°52'41" ♍ | -14°08'02" | 00°00'00"   | -00°00'02" | 0.003  |
| 12/10/2013 00:00:00 | T♄ | 07°05'32" ♉ | 18°43'48"  | -04°31'18"  | 02°34'43"  | 0.003  |

Ephemerides year 2013

|                     |    |             |            |             |            |        |
|---------------------|----|-------------|------------|-------------|------------|--------|
| 12/10/2013 00:00:00 | X  | 22°25'59" ♄ | -03°26'09" | -13°05'15"  | -00°00'35" | 95.477 |
| 12/10/2013 00:00:00 | Y  | 24°08'21" ♃ | 07°07'00"  | -12°02'15"  | -00°00'28" | 85.652 |
| 13/10/2013 00:00:00 | ☉  | 19°49'14" ♌ | -07°45'01" | 00°00'00"   | 00°59'23"  | 0.998  |
| 13/10/2013 00:00:00 | ☾  | 03°32'36" ♍ | -14°15'16" | 05°14'40"   | 14°09'36"  | 0.002  |
| 13/10/2013 00:00:00 | ♀  | 14°39'07" ♍ | -19°13'03" | -03°07'38"  | 00°47'23"  | 0.937  |
| 13/10/2013 00:00:00 | ♀  | 05°45'37" ♋ | -24°03'33" | 0-02°50'27" | 01°05'17"  | 0.815  |
| 13/10/2013 00:00:00 | ♂  | 28°31'34" ♌ | 13°16'48"  | 01°22'53"   | 00°36'00"  | 2.060  |
| 13/10/2013 00:00:00 | ♃  | 19°29'05" ♉ | 21°58'04"  | -00°03'11"  | 00°04'45"  | 5.059  |
| 13/10/2013 00:00:00 | ♅  | 11°20'35" ♍ | -13°11'40" | 02°08'27"   | 00°06'52"  | 10.783 |
| 13/10/2013 00:00:00 | ♁  | 10°09'08" ♄ | 03°21'06"  | -00°43'35"  | -00°02'22" | 19.056 |
| 13/10/2013 00:00:00 | ♃  | 02°51'08" ♋ | -11°05'47" | -00°41'13"  | -00°00'59" | 29.292 |
| 13/10/2013 00:00:00 | ♁  | 09°07'07" ♌ | -20°11'12" | 02°56'31"   | 00°00'41"  | 32.695 |
| 13/10/2013 00:00:00 | ♌  | 07°52'13" ♍ | -14°07'53" | 00°00'00"   | -00°00'54" | 0.003  |
| 13/10/2013 00:00:00 | ♁  | 09°46'22" ♋ | -02°55'27" | 05°22'16"   | -00°01'58" | 16.874 |
| 13/10/2013 00:00:00 | ♁  | 14°01'06" ♉ | 18°02'16"  | -04°41'05"  | 00°06'42"  | 0.003  |
| 13/10/2013 00:00:00 | T♌ | 07°52'13" ♍ | -14°07'53" | 00°00'00"   | -00°00'54" | 0.003  |
| 13/10/2013 00:00:00 | T♁ | 10°02'38" ♉ | 18°24'50"  | -04°39'15"  | 03°20'53"  | 0.003  |
| 13/10/2013 00:00:00 | X  | 22°25'23" ♄ | -03°26'20" | -13°05'14"  | -00°00'35" | 95.476 |
| 13/10/2013 00:00:00 | Y  | 24°07'52" ♃ | 07°06'48"  | -12°02'20"  | -00°00'29" | 85.642 |

Ephemerides year 2013

|                     |    |           |            |             |            |        |
|---------------------|----|-----------|------------|-------------|------------|--------|
| 14/10/2013 00:00:00 | ♁  | 20°48'38" | -08°07'23" | 00°00'00"   | 00°59'24"  | 0.997  |
| 14/10/2013 00:00:00 | ♃  | 17°40'03" | -10°35'39" | 05°10'58"   | 14°04'52"  | 0.002  |
| 14/10/2013 00:00:00 | ♆  | 15°24'35" | -19°29'14" | -03°10'25"  | 00°43'29"  | 0.919  |
| 14/10/2013 00:00:00 | ♀  | 06°50'48" | -24°18'14" | 0-02°53'46" | 01°05'04"  | 0.807  |
| 14/10/2013 00:00:00 | ♂  | 29°07'32" | 13°04'45"  | 01°23'26"   | 00°35'56"  | 2.053  |
| 14/10/2013 00:00:00 | ♃  | 19°33'45" | 21°57'31"  | -00°03'04"  | 00°04'34"  | 5.044  |
| 14/10/2013 00:00:00 | ♆  | 11°27'28" | -13°13'52" | 02°08'22"   | 00°06'53"  | 10.789 |
| 14/10/2013 00:00:00 | ♁  | 10°06'46" | 03°20'11"  | -00°43'34"  | -00°02'22" | 19.059 |
| 14/10/2013 00:00:00 | ♃  | 02°50'09" | -11°06'08" | -00°41'13"  | -00°00'57" | 29.305 |
| 14/10/2013 00:00:00 | ♁  | 09°07'49" | -20°11'20" | 02°56'20"   | 00°00'43"  | 32.712 |
| 14/10/2013 00:00:00 | ♆  | 07°50'55" | -14°07'28" | 00°00'00"   | -00°01'37" | 0.003  |
| 14/10/2013 00:00:00 | ♁  | 09°44'24" | -02°56'26" | 05°22'00"   | -00°01'56" | 16.886 |
| 14/10/2013 00:00:00 | ♁  | 14°07'48" | 18°01'14"  | -04°41'27"  | 00°06'42"  | 0.003  |
| 14/10/2013 00:00:00 | T♆ | 07°50'55" | -14°07'28" | 00°00'00"   | -00°01'37" | 0.003  |
| 14/10/2013 00:00:00 | T♁ | 13°45'00" | 17°56'48"  | -04°48'12"  | 04°00'15"  | 0.003  |
| 14/10/2013 00:00:00 | X  | 22°24'47" | -03°26'32" | -13°05'12"  | -00°00'35" | 95.476 |
| 14/10/2013 00:00:00 | Y  | 24°07'23" | 07°06'37"  | -12°02'24"  | -00°00'29" | 85.632 |
| 15/10/2013 00:00:00 | ♁  | 21°48'04" | -08°29'38" | 00°00'00"   | 00°59'26"  | 0.997  |
| 15/10/2013 00:00:00 | ♃  | 01°41'31" | -06°22'14" | 04°48'45"   | 13°57'36"  | 0.002  |

Ephemerides year 2013

|                     |    |             |            |             |            |        |
|---------------------|----|-------------|------------|-------------|------------|--------|
| 15/10/2013 00:00:00 | ♀  | 16°05'57" ♎ | -19°43'27" | -03°12'34"  | 00°39'11"  | 0.901  |
| 15/10/2013 00:00:00 | ♀  | 07°55'47" ♈ | -24°32'19" | o-02°57'00" | 01°04'52"  | 0.800  |
| 15/10/2013 00:00:00 | ♂  | 29°43'26" ♏ | 12°52'39"  | 01°23'59"   | 00°35'52"  | 2.046  |
| 15/10/2013 00:00:00 | ♃  | 19°38'14" ♉ | 21°56'58"  | -00°02'58"  | 00°04'24"  | 5.029  |
| 15/10/2013 00:00:00 | ♃  | 11°34'22" ♎ | -13°16'04" | 02°08'16"   | 00°06'54"  | 10.795 |
| 15/10/2013 00:00:00 | ♃  | 10°04'24" ♏ | 03°19'16"  | -00°43'33"  | -00°02'21" | 19.062 |
| 15/10/2013 00:00:00 | ♃  | 02°49'12" ♏ | -11°06'28" | -00°41'12"  | -00°00'56" | 29.318 |
| 15/10/2013 00:00:00 | ♃  | 09°08'33" ♏ | -20°11'29" | 02°56'08"   | 00°00'44"  | 32.730 |
| 15/10/2013 00:00:00 | ♏  | 07°49'04" ♎ | -14°06'52" | 00°00'00"   | -00°02'02" | 0.003  |
| 15/10/2013 00:00:00 | ♏  | 09°42'30" ♏ | -02°57'24" | 05°21'43"   | -00°01'53" | 16.899 |
| 15/10/2013 00:00:00 | ♏  | 14°14'31" ♉ | 18°00'11"  | -04°41'48"  | 00°06'42"  | 0.003  |
| 15/10/2013 00:00:00 | T♏ | 07°49'04" ♎ | -14°06'52" | 00°00'00"   | -00°02'02" | 0.003  |
| 15/10/2013 00:00:00 | T♏ | 17°52'38" ♉ | 17°20'12"  | -04°56'48"  | 04°08'46"  | 0.003  |
| 15/10/2013 00:00:00 | X  | 22°24'11" ♏ | -03°26'43" | -13°05'10"  | -00°00'36" | 95.475 |
| 15/10/2013 00:00:00 | Y  | 24°06'53" ♏ | 07°06'26"  | -12°02'29"  | -00°00'30" | 85.622 |
| 16/10/2013 00:00:00 | ♁  | 22°47'31" ♏ | -08°51'46" | 00°00'00"   | 00°59'28"  | 0.997  |
| 16/10/2013 00:00:00 | ♃  | 15°34'24" ♏ | -01°50'46" | 04°09'47"   | 13°47'43"  | 0.003  |
| 16/10/2013 00:00:00 | ♀  | 16°42'49" ♎ | -19°55'34" | -03°14'01"  | 00°34'27"  | 0.882  |
| 16/10/2013 00:00:00 | ♀  | 09°00'33" ♈ | -24°45'50" | o-03°00'11" | 01°04'39"  | 0.792  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 16/10/2013 00:00:00 | ♂  | 00°19'17" ♉ | 12°40'30"  | 01°24'31"  | 00°35'48"  | 2.039  |
| 16/10/2013 00:00:00 | ♃  | 19°42'33" ♉ | 21°56'27"  | -00°02'51" | 00°04'13"  | 5.013  |
| 16/10/2013 00:00:00 | ♃  | 11°41'18" ♉ | -13°18'15" | 02°08'11"  | 00°06'56"  | 10.800 |
| 16/10/2013 00:00:00 | ♃  | 10°02'03" ♉ | 03°18'21"  | -00°43'33" | -00°02'20" | 19.066 |
| 16/10/2013 00:00:00 | ♃  | 02°48'17" ♉ | -11°06'48" | -00°41'12" | -00°00'54" | 29.331 |
| 16/10/2013 00:00:00 | ♃  | 09°09'19" ♉ | -20°11'37" | 02°55'57"  | 00°00'46"  | 32.747 |
| 16/10/2013 00:00:00 | ♁  | 07°46'58" ♉ | -14°06'11" | 00°00'00"  | -00°02'04" | 0.003  |
| 16/10/2013 00:00:00 | ♃  | 09°40'37" ♉ | -02°58'21" | 05°21'26"  | -00°01'51" | 16.911 |
| 16/10/2013 00:00:00 | ♁  | 14°21'13" ♉ | 17°59'08"  | -04°42'10" | 00°06'42"  | 0.003  |
| 16/10/2013 00:00:00 | T♁ | 07°46'58" ♉ | -14°06'11" | 00°00'00"  | -00°02'04" | 0.003  |
| 16/10/2013 00:00:00 | T♃ | 21°49'54" ♉ | 16°40'02"  | -05°03'39" | 03°39'46"  | 0.003  |
| 16/10/2013 00:00:00 | X  | 22°23'35" ♉ | -03°26'54" | -13°05'08" | -00°00'36" | 95.475 |
| 16/10/2013 00:00:00 | Y  | 24°06'22" ♉ | 07°06'14"  | -12°02'34" | -00°00'30" | 85.613 |
| 17/10/2013 00:00:00 | ♁  | 23°47'01" ♉ | -09°13'47" | 00°00'00"  | 00°59'30"  | 0.997  |
| 17/10/2013 00:00:00 | ♃  | 29°16'07" ♉ | 02°43'13"  | 03°16'55"  | 13°35'20"  | 0.003  |
| 17/10/2013 00:00:00 | ♃  | 17°14'44" ♉ | -20°05'23" | -03°14'40" | 00°29'17"  | 0.864  |
| 17/10/2013 00:00:00 | ♀  | 10°05'05" ♉ | -24°58'46" | -03°03'16" | 01°04'25"  | 0.784  |
| 17/10/2013 00:00:00 | ♂  | 00°55'03" ♉ | 12°28'19"  | 01°25'04"  | 00°35'44"  | 2.032  |
| 17/10/2013 00:00:00 | ♃  | 19°46'42" ♉ | 21°55'58"  | -00°02'45" | 00°04'03"  | 4.998  |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 17/10/2013 00:00:00 | ♃ | 11°48'15" ♍ | -13°20'27" | 02°08'06"  | 00°06'57"  | 10.805 |
| 17/10/2013 00:00:00 | ♃ | 09°59'42" ♏ | 03°17'27"  | -00°43'32" | -00°02'19" | 19.070 |
| 17/10/2013 00:00:00 | ♃ | 02°47'23" ♏ | -11°07'07" | -00°41'11" | -00°00'52" | 29.344 |
| 17/10/2013 00:00:00 | ♃ | 09°10'06" ♏ | -20°11'45" | 02°55'46"  | 00°00'48"  | 32.764 |
| 17/10/2013 00:00:00 | ♃ | 07°45'02" ♏ | -14°05'34" | 00°00'00"  | -00°01'46" | 0.003  |
| 17/10/2013 00:00:00 | ♃ | 09°38'48" ♏ | -02°59'18" | 05°21'09"  | -00°01'48" | 16.924 |
| 17/10/2013 00:00:00 | ♃ | 14°27'56" ♏ | 17°58'05"  | -04°42'32" | 00°06'42"  | 0.003  |
| 17/10/2013 00:00:00 | ♃ | 07°45'02" ♏ | -14°05'34" | 00°00'00"  | -00°01'46" | 0.003  |
| 17/10/2013 00:00:00 | ♃ | 25°01'37" ♏ | 16°04'05"  | -05°08'12" | 02°39'14"  | 0.003  |
| 17/10/2013 00:00:00 | X | 22°22'59" ♏ | -03°27'05" | -13°05'06" | -00°00'36" | 95.476 |
| 17/10/2013 00:00:00 | Y | 24°05'52" ♏ | 07°06'03"  | -12°02'38" | -00°00'31" | 85.603 |
| 18/10/2013 00:00:00 | ♃ | 24°46'32" ♏ | -09°35'39" | -00°00'00" | 00°59'32"  | 0.996  |
| 18/10/2013 00:00:00 | ♃ | 12°44'22" ♏ | 07°05'08"  | 02°13'50"  | 13°20'51"  | 0.003  |
| 18/10/2013 00:00:00 | ♃ | 17°41'13" ♏ | -20°12'45" | -03°14'27" | 00°23'36"  | 0.845  |
| 18/10/2013 00:00:00 | ♃ | 11°09'24" ♏ | -25°11'06" | -03°06'17" | 01°04'11"  | 0.777  |
| 18/10/2013 00:00:00 | ♃ | 01°30'46" ♏ | 12°16'05"  | 01°25'37"  | 00°35'40"  | 2.025  |
| 18/10/2013 00:00:00 | ♃ | 19°50'40" ♏ | 21°55'30"  | -00°02'38" | 00°03'52"  | 4.982  |
| 18/10/2013 00:00:00 | ♃ | 11°55'14" ♏ | -13°22'39" | 02°08'01"  | 00°06'59"  | 10.810 |
| 18/10/2013 00:00:00 | ♃ | 09°57'23" ♏ | 03°16'33"  | -00°43'31" | -00°02'19" | 19.075 |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 18/10/2013 00:00:00 | ♁ | 02°46'31" ♈ | -11°07'25" | -00°41'11" | -00°00'51" | 29.358 |
| 18/10/2013 00:00:00 | ♁ | 09°10'55" ♈ | -20°11'53" | 02°55'35"  | 00°00'50"  | 32.781 |
| 18/10/2013 00:00:00 | ♁ | 07°43'31" ♎ | -14°05'04" | 00°00'00"  | -00°01'13" | 0.003  |
| 18/10/2013 00:00:00 | ♁ | 09°37'01" ♈ | -03°00'14" | 05°20'52"  | -00°01'45" | 16.937 |
| 18/10/2013 00:00:00 | ♁ | 14°34'39" ♉ | 17°57'01"  | -04°42'53" | 00°06'42"  | 0.003  |
| 18/10/2013 00:00:00 | ♁ | 07°43'31" ♎ | -14°05'04" | 00°00'00"  | -00°01'13" | 0.003  |
| 18/10/2013 00:00:00 | ♁ | 27°01'39" ♉ | 15°39'58"  | -05°10'40" | 01°18'35"  | 0.003  |
| 18/10/2013 00:00:00 | X | 22°22'23" ♈ | -03°27'16" | -13°05'04" | -00°00'36" | 95.476 |
| 18/10/2013 00:00:00 | Y | 24°05'20" ♉ | 07°05'52"  | -12°02'42" | -00°00'31" | 85.594 |
| 19/10/2013 00:00:00 | ♁ | 25°46'05" ♈ | -09°57'23" | -00°00'00" | 00°59'34"  | 0.996  |
| 19/10/2013 00:00:00 | ♁ | 25°57'20" ♈ | 11°01'41"  | 01°04'37"  | 13°04'56"  | 0.003  |
| 19/10/2013 00:00:00 | ♁ | 18°01'46" ♎ | -20°17'27" | -03°13'16" | 00°17'24"  | 0.827  |
| 19/10/2013 00:00:00 | ♁ | 12°13'28" ♈ | -25°22'51" | -03°09'13" | 01°03'57"  | 0.769  |
| 19/10/2013 00:00:00 | ♁ | 02°06'25" ♎ | 12°03'49"  | 01°26'10"  | 00°35'37"  | 2.018  |
| 19/10/2013 00:00:00 | ♁ | 19°54'27" ♉ | 21°55'03"  | -00°02'32" | 00°03'41"  | 4.967  |
| 19/10/2013 00:00:00 | ♁ | 12°02'13" ♎ | -13°24'51" | 02°07'56"  | 00°07'00"  | 10.815 |
| 19/10/2013 00:00:00 | ♁ | 09°55'04" ♈ | 03°15'39"  | -00°43'30" | -00°02'18" | 19.079 |
| 19/10/2013 00:00:00 | ♁ | 02°45'41" ♈ | -11°07'43" | -00°41'10" | -00°00'49" | 29.372 |
| 19/10/2013 00:00:00 | ♁ | 09°11'46" ♈ | -20°12'00" | 02°55'23"  | 00°00'51"  | 32.798 |

Ephemerides year 2013

|                     |    |             |            |             |            |        |
|---------------------|----|-------------|------------|-------------|------------|--------|
| 19/10/2013 00:00:00 | ♏  | 07°42'37" ♍ | -14°04'47" | 00°00'00"   | -00°00'33" | 0.003  |
| 19/10/2013 00:00:00 | ♋  | 09°35'16" ♉ | -03°01'08" | 05°20'35"   | -00°01'42" | 16.950 |
| 19/10/2013 00:00:00 | ♌  | 14°41'21" ♈ | 17°55'58"  | -04°43'14"  | 00°06'42"  | 0.003  |
| 19/10/2013 00:00:00 | T♏ | 07°42'37" ♍ | -14°04'47" | 00°00'00"   | -00°00'33" | 0.003  |
| 19/10/2013 00:00:00 | T♌ | 27°37'03" ♈ | 15°32'27"  | -05°11'31"  | -00°07'11" | 0.003  |
| 19/10/2013 00:00:00 | X  | 22°21'47" ♉ | -03°27'27" | -13°05'01"  | -00°00'35" | 95.477 |
| 19/10/2013 00:00:00 | Y  | 24°04'49" ♉ | 07°05'40"  | -12°02'46"  | -00°00'31" | 85.586 |
| 20/10/2013 00:00:00 | ♍  | 26°45'41" ♎ | -10°18'59" | -00°00'00"  | 00°59'36"  | 0.996  |
| 20/10/2013 00:00:00 | ♎  | 08°54'03" ♏ | 14°21'30"  | -00°06'37"  | 12°48'29"  | 0.003  |
| 20/10/2013 00:00:00 | ♏  | 18°15'51" ♍ | -20°19'16" | -03°11'00"  | 00°10'39"  | 0.809  |
| 20/10/2013 00:00:00 | ♌  | 13°17'18" ♉ | -25°34'00" | 0-03°12'04" | 01°03'42"  | 0.761  |
| 20/10/2013 00:00:00 | ♉  | 02°42'01" ♈ | 11°51'30"  | 01°26'43"   | 00°35'33"  | 2.011  |
| 20/10/2013 00:00:00 | ♈  | 19°58'04" ♈ | 21°54'38"  | -00°02'25"  | 00°03'31"  | 4.952  |
| 20/10/2013 00:00:00 | ♌  | 12°09'14" ♈ | -13°27'03" | 02°07'52"   | 00°07'01"  | 10.820 |
| 20/10/2013 00:00:00 | ♉  | 09°52'47" ♉ | 03°14'46"  | -00°43'29"  | -00°02'17" | 19.084 |
| 20/10/2013 00:00:00 | ♏  | 02°44'52" ♉ | -11°08'00" | -00°41'10"  | -00°00'47" | 29.386 |
| 20/10/2013 00:00:00 | ♌  | 09°12'39" ♈ | -20°12'08" | 02°55'12"   | 00°00'53"  | 32.815 |
| 20/10/2013 00:00:00 | ♏  | 07°42'22" ♍ | -14°04'42" | 00°00'00"   | 00°00'03"  | 0.003  |
| 20/10/2013 00:00:00 | ♋  | 09°33'35" ♉ | -03°02'02" | 05°20'17"   | -00°01'39" | 16.964 |



Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 20/10/2013 00:00:00 | ☾ | 14°48'04" ☾ | 17°54'54"  | -04°43'35" | 00°06'42"  | 0.003  |
| 20/10/2013 00:00:00 | ♁ | 07°42'22" ♁ | -14°04'42" | 00°00'00"  | 00°00'03"  | 0.003  |
| 20/10/2013 00:00:00 | ♁ | 26°51'34" ☾ | 15°41'31"  | -05°11'00" | -01°20'06" | 0.003  |
| 20/10/2013 00:00:00 | X | 22°21'11" ♁ | -03°27'37" | -13°04'59" | -00°00'35" | 95.479 |
| 20/10/2013 00:00:00 | Y | 24°04'17" ☾ | 07°05'29"  | -12°02'50" | -00°00'32" | 85.577 |
| 21/10/2013 00:00:00 | ☉ | 27°45'18" ♁ | -10°40'25" | -00°00'00" | 00°59'38"  | 0.996  |
| 21/10/2013 00:00:00 | ☾ | 21°34'28" ☾ | 16°55'44"  | -01°16'07" | 12°32'30"  | 0.003  |
| 21/10/2013 00:00:00 | ♀ | 18°22'54" ♁ | -20°17'57" | -03°07'34" | 00°03'21"  | 0.791  |
| 21/10/2013 00:00:00 | ♀ | 14°20'53" ♁ | -25°44'32" | -03°14'49" | 01°03'27"  | 0.754  |
| 21/10/2013 00:00:00 | ♂ | 03°17'32" ♁ | 11°39'09"  | 01°27'15"  | 00°35'29"  | 2.004  |
| 21/10/2013 00:00:00 | ♁ | 20°01'29" ☾ | 21°54'15"  | -00°02'18" | 00°03'20"  | 4.937  |
| 21/10/2013 00:00:00 | ♁ | 12°16'17" ♁ | -13°29'15" | 02°07'47"  | 00°07'02"  | 10.824 |
| 21/10/2013 00:00:00 | ♁ | 09°50'30" ♁ | 03°13'53"  | -00°43'28" | -00°02'16" | 19.090 |
| 21/10/2013 00:00:00 | ♁ | 02°44'05" ♁ | -11°08'16" | -00°41'09" | -00°00'46" | 29.400 |
| 21/10/2013 00:00:00 | ♁ | 09°13'34" ♁ | -20°12'15" | 02°55'01"  | 00°00'55"  | 32.832 |
| 21/10/2013 00:00:00 | ♁ | 07°42'41" ♁ | -14°04'48" | 00°00'00"  | 00°00'32"  | 0.003  |
| 21/10/2013 00:00:00 | ♁ | 09°31'56" ♁ | -03°02'56" | 05°19'59"  | -00°01'37" | 16.977 |
| 21/10/2013 00:00:00 | ☾ | 14°54'46" ☾ | 17°53'50"  | -04°43'56" | 00°06'42"  | 0.003  |
| 21/10/2013 00:00:00 | ♁ | 07°42'41" ♁ | -14°04'48" | 00°00'00"  | 00°00'32"  | 0.003  |

Ephemerides year 2013

|                     |    |             |            |             |            |        |
|---------------------|----|-------------|------------|-------------|------------|--------|
| 21/10/2013 00:00:00 | T♄ | 25°06'38" ♉ | 16°02'10"  | -05°09'15"  | -02°04'02" | 0.003  |
| 21/10/2013 00:00:00 | X  | 22°20'35" ♏ | -03°27'48" | -13°04'56"  | -00°00'35" | 95.480 |
| 21/10/2013 00:00:00 | Y  | 24°03'45" ♏ | 07°05'18"  | -12°02'54"  | -00°00'32" | 85.569 |
| 22/10/2013 00:00:00 | ☉  | 28°44'58" ♋ | -11°01'42" | -00°00'00"  | 00°59'40"  | 0.995  |
| 22/10/2013 00:00:00 | ☾  | 03°59'33" ♋ | 18°38'23"  | -02°20'38"  | 12°18'01"  | 0.003  |
| 22/10/2013 00:00:00 | ♀  | 18°22'23" ♏ | -20°13'15" | -03°02'49"  | -00°04'28" | 0.773  |
| 22/10/2013 00:00:00 | ♀  | 15°24'13" ♏ | -25°54'28" | o-03°17'29" | 01°03'11"  | 0.746  |
| 22/10/2013 00:00:00 | ♂  | 03°53'00" ♏ | 11°26'47"  | 01°27'48"   | 00°35'25"  | 1.996  |
| 22/10/2013 00:00:00 | ♃  | 20°04'44" ♉ | 21°53'53"  | -00°02'11"  | 00°03'09"  | 4.921  |
| 22/10/2013 00:00:00 | ♅  | 12°23'20" ♏ | -13°31'27" | 02°07'43"   | 00°07'03"  | 10.828 |
| 22/10/2013 00:00:00 | ♁  | 09°48'15" ♏ | 03°13'01"  | -00°43'27"  | -00°02'14" | 19.095 |
| 22/10/2013 00:00:00 | ♃  | 02°43'20" ♏ | -11°08'32" | -00°41'09"  | -00°00'44" | 29.414 |
| 22/10/2013 00:00:00 | ♁  | 09°14'30" ♏ | -20°12'22" | 02°54'50"   | 00°00'57"  | 32.848 |
| 22/10/2013 00:00:00 | ♁  | 07°43'23" ♏ | -14°05'01" | 00°00'00"   | 00°00'48"  | 0.003  |
| 22/10/2013 00:00:00 | ♁  | 09°30'21" ♏ | -03°03'48" | 05°19'41"   | -00°01'34" | 16.991 |
| 22/10/2013 00:00:00 | ♁  | 15°01'29" ♉ | 17°52'46"  | -04°44'17"  | 00°06'42"  | 0.003  |
| 22/10/2013 00:00:00 | T♁ | 07°43'23" ♏ | -14°05'01" | 00°00'00"   | 00°00'48"  | 0.003  |
| 22/10/2013 00:00:00 | T♄ | 22°55'16" ♉ | 16°26'53"  | -05°06'33"  | -02°13'11" | 0.003  |
| 22/10/2013 00:00:00 | X  | 22°20'00" ♏ | -03°27'58" | -13°04'53"  | -00°00'35" | 95.482 |

Ephemerides year 2013

|                     |    |             |            |             |            |        |
|---------------------|----|-------------|------------|-------------|------------|--------|
| 22/10/2013 00:00:00 | Y  | 24°03'12" ♃ | 07°05'07"  | -12°02'58"  | -00°00'32" | 85.561 |
| 23/10/2013 00:00:00 | ☉  | 29°44'39" ♉ | -11°22'49" | -00°00'00"  | 00°59'42"  | 0.995  |
| 23/10/2013 00:00:00 | ☾  | 16°11'19" ♀ | 19°26'37"  | -03°17'33"  | 12°05'59"  | 0.003  |
| 23/10/2013 00:00:00 | ♀  | 18°13'47" ♍ | -20°04'55" | -02°56'39"  | -00°12'48" | 0.757  |
| 23/10/2013 00:00:00 | ♀  | 16°27'17" ♂ | -26°03'47" | o-03°20'02" | 01°02'55"  | 0.738  |
| 23/10/2013 00:00:00 | ♂  | 04°28'23" ♎ | 11°14'22"  | 01°28'21"   | 00°35'21"  | 1.989  |
| 23/10/2013 00:00:00 | ♃  | 20°07'48" ♄ | 21°53'32"  | -00°02'05"  | 00°02'58"  | 4.906  |
| 23/10/2013 00:00:00 | ♅  | 12°30'24" ♎ | -13°33'39" | 02°07'39"   | 00°07'04"  | 10.832 |
| 23/10/2013 00:00:00 | ♁  | 09°46'00" ♏ | 03°12'09"  | -00°43'26"  | -00°02'13" | 19.101 |
| 23/10/2013 00:00:00 | ♃  | 02°42'37" ♏ | -11°08'47" | -00°41'08"  | -00°00'42" | 29.429 |
| 23/10/2013 00:00:00 | ♁  | 09°15'28" ♁ | -20°12'29" | 02°54'39"   | 00°00'58"  | 32.865 |
| 23/10/2013 00:00:00 | ♁  | 07°44'14" ♎ | -14°05'18" | 00°00'00"   | 00°00'52"  | 0.003  |
| 23/10/2013 00:00:00 | ♃  | 09°28'48" ♏ | -03°04'39" | 05°19'23"   | -00°01'31" | 17.005 |
| 23/10/2013 00:00:00 | ♁  | 15°08'12" ♄ | 17°51'42"  | -04°44'38"  | 00°06'42"  | 0.003  |
| 23/10/2013 00:00:00 | T♁ | 07°44'14" ♎ | -14°05'18" | 00°00'00"   | 00°00'52"  | 0.003  |
| 23/10/2013 00:00:00 | T♃ | 20°49'11" ♄ | 16°49'19"  | -05°03'30"  | -01°55'48" | 0.003  |
| 23/10/2013 00:00:00 | X  | 22°19'24" ♏ | -03°28'08" | -13°04'50"  | -00°00'35" | 95.484 |
| 23/10/2013 00:00:00 | Y  | 24°02'40" ♃ | 07°04'56"  | -12°03'02"  | -00°00'32" | 85.553 |
| 24/10/2013 00:00:00 | ☉  | 00°44'23" ♎ | -11°43'46" | -00°00'00"  | 00°59'45"  | 0.995  |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 24/10/2013 00:00:00 | ♃ | 28°12'38" ♀ | 19°20'30"  | -04°04'55" | 11°57'14"  | 0.003  |
| 24/10/2013 00:00:00 | ♃ | 17°56'38" ♀ | -19°52'41" | -02°48'58" | -00°21'33" | 0.741  |
| 24/10/2013 00:00:00 | ♃ | 17°30'05" ♀ | -26°12'29" | -03°22'30" | 01°02'39"  | 0.731  |
| 24/10/2013 00:00:00 | ♃ | 05°03'43" ♀ | 11°01'56"  | 01°28'54"  | 00°35'17"  | 1.982  |
| 24/10/2013 00:00:00 | ♃ | 20°10'40" ♀ | 21°53'13"  | -00°01'58" | 00°02'46"  | 4.891  |
| 24/10/2013 00:00:00 | ♃ | 12°37'30" ♀ | -13°35'51" | 02°07'35"  | 00°07'05"  | 10.835 |
| 24/10/2013 00:00:00 | ♃ | 09°43'47" ♀ | 03°11'18"  | -00°43'25" | -00°02'12" | 19.107 |
| 24/10/2013 00:00:00 | ♃ | 02°41'55" ♀ | -11°09'01" | -00°41'08" | -00°00'40" | 29.443 |
| 24/10/2013 00:00:00 | ♃ | 09°16'28" ♀ | -20°12'36" | 02°54'28"  | 00°01'00"  | 32.882 |
| 24/10/2013 00:00:00 | ♃ | 07°45'04" ♀ | -14°05'34" | 00°00'00"  | 00°00'45"  | 0.002  |
| 24/10/2013 00:00:00 | ♃ | 09°27'18" ♀ | -03°05'30" | 05°19'05"  | -00°01'28" | 17.019 |
| 24/10/2013 00:00:00 | ♃ | 15°14'55" ♀ | 17°50'38"  | -04°44'58" | 00°06'42"  | 0.003  |
| 24/10/2013 00:00:00 | ♃ | 07°45'04" ♀ | -14°05'34" | 00°00'00"  | 00°00'45"  | 0.002  |
| 24/10/2013 00:00:00 | ♃ | 19°07'03" ♀ | 17°06'33"  | -05°00'41" | -01°28'09" | 0.003  |
| 24/10/2013 00:00:00 | X | 22°18'48" ♀ | -03°28'18" | -13°04'47" | -00°00'35" | 95.486 |
| 24/10/2013 00:00:00 | Y | 24°02'06" ♀ | 07°04'44"  | -12°03'05" | -00°00'33" | 85.546 |
| 25/10/2013 00:00:00 | ♃ | 01°44'09" ♀ | -12°04'32" | -00°00'00" | 00°59'47"  | 0.994  |
| 25/10/2013 00:00:00 | ♃ | 10°07'07" ♀ | 18°22'32"  | -04°41'13" | 11°52'25"  | 0.003  |
| 25/10/2013 00:00:00 | ♃ | 17°30'35" ♀ | -19°36'22" | -02°39'39" | -00°30'34" | 0.726  |

Ephemerides year 2013

|                     |    |             |              |            |            |        |
|---------------------|----|-------------|--------------|------------|------------|--------|
| 25/10/2013 00:00:00 | ♀  | 18°32'36" ♏ | -26°20'34" ♍ | -03°24'51" | 01°02'22"  | 0.723  |
| 25/10/2013 00:00:00 | ♂  | 05°38'59" ♏ | 10°49'28"    | 01°29'27"  | 00°35'13"  | 1.974  |
| 25/10/2013 00:00:00 | ♃  | 20°13'22" ♎ | 21°52'56"    | -00°01'51" | 00°02'35"  | 4.876  |
| 25/10/2013 00:00:00 | ♅  | 12°44'36" ♏ | -13°38'03"   | 02°07'31"  | 00°07'06"  | 10.839 |
| 25/10/2013 00:00:00 | ♁  | 09°41'35" ♏ | 03°10'27"    | -00°43'24" | -00°02'11" | 19.114 |
| 25/10/2013 00:00:00 | ♃  | 02°41'15" ♏ | -11°09'15"   | -00°41'07" | -00°00'38" | 29.458 |
| 25/10/2013 00:00:00 | ♁  | 09°17'29" ♏ | -20°12'43"   | 02°54'17"  | 00°01'02"  | 32.898 |
| 25/10/2013 00:00:00 | ♁  | 07°45'43" ♏ | -14°05'47"   | 00°00'00"  | 00°00'31"  | 0.002  |
| 25/10/2013 00:00:00 | ♃  | 09°25'51" ♏ | -03°06'19"   | 05°18'46"  | -00°01'25" | 17.034 |
| 25/10/2013 00:00:00 | ♁  | 15°21'37" ♎ | 17°49'33"    | -04°45'19" | 00°06'42"  | 0.003  |
| 25/10/2013 00:00:00 | T♁ | 07°45'43" ♏ | -14°05'47"   | 00°00'00"  | 00°00'31"  | 0.002  |
| 25/10/2013 00:00:00 | T♁ | 17°51'10" ♎ | 17°18'48"    | -04°58'24" | -01°05'24" | 0.003  |
| 25/10/2013 00:00:00 | X  | 22°18'13" ♏ | -03°28'27"   | -13°04'44" | -00°00'35" | 95.489 |
| 25/10/2013 00:00:00 | Y  | 24°01'33" ♏ | 07°04'34"    | -12°03'08" | -00°00'33" | 85.539 |
| 26/10/2013 00:00:00 | ♁  | 02°43'58" ♏ | -12°25'08"   | -00°00'00" | 00°59'49"  | 0.994  |
| 26/10/2013 00:00:00 | ♃  | 21°58'57" ♎ | 16°36'56"    | -05°05'23" | 11°52'00"  | 0.003  |
| 26/10/2013 00:00:00 | ♃  | 16°55'28" ♏ | -19°15'45"   | -02°28'37" | -00°39'39" | 0.712  |
| 26/10/2013 00:00:00 | ♀  | 19°34'49" ♏ | -26°28'02" ♍ | -03°27'05" | 01°02'04"  | 0.716  |
| 26/10/2013 00:00:00 | ♂  | 06°14'10" ♏ | 10°36'58"    | 01°30'00"  | 00°35'09"  | 1.967  |

Ephemerides year 2013

|                     |    |             |            |             |            |        |
|---------------------|----|-------------|------------|-------------|------------|--------|
| 26/10/2013 00:00:00 | ♃  | 20°15'52" ♉ | 21°52'41"  | -00°01'44"  | 00°02'24"  | 4.861  |
| 26/10/2013 00:00:00 | ♃  | 12°51'43" ♉ | -13°40'14" | 02°07'28"   | 00°07'07"  | 10.842 |
| 26/10/2013 00:00:00 | ♃  | 09°39'24" ♉ | 03°09'37"  | -00°43'23"  | -00°02'10" | 19.121 |
| 26/10/2013 00:00:00 | ♃  | 02°40'37" ♉ | -11°09'28" | -00°41'06"  | -00°00'37" | 29.473 |
| 26/10/2013 00:00:00 | ♃  | 09°18'32" ♉ | -20°12'49" | 02°54'06"   | 00°01'03"  | 32.914 |
| 26/10/2013 00:00:00 | ♃  | 07°46'05" ♉ | -14°05'54" | 00°00'00"   | 00°00'14"  | 0.002  |
| 26/10/2013 00:00:00 | ♃  | 09°24'27" ♉ | -03°07'08" | 05°18'28"   | -00°01'22" | 17.048 |
| 26/10/2013 00:00:00 | ♃  | 15°28'20" ♉ | 17°48'28"  | -04°45'39"  | 00°06'42"  | 0.003  |
| 26/10/2013 00:00:00 | T♃ | 07°46'05" ♉ | -14°05'54" | 00°00'00"   | 00°00'14"  | 0.002  |
| 26/10/2013 00:00:00 | T♃ | 16°51'17" ♉ | 17°28'07"  | -04°56'29"  | -00°57'16" | 0.003  |
| 26/10/2013 00:00:00 | X  | 22°17'37" ♉ | -03°28'37" | -13°04'41"  | -00°00'35" | 95.492 |
| 26/10/2013 00:00:00 | Y  | 24°00'59" ♉ | 07°04'23"  | -12°03'12"  | -00°00'33" | 85.532 |
| 27/10/2013 00:00:00 | ♃  | 03°43'48" ♉ | -12°45'32" | -00°00'00"  | 00°59'51"  | 0.994  |
| 27/10/2013 00:00:00 | ♃  | 03°52'42" ♉ | 14°08'52"  | -05°16'33"  | 11°56'16"  | 0.003  |
| 27/10/2013 00:00:00 | ♃  | 16°11'19" ♉ | -18°50'45" | -02°15'51"  | -00°48'34" | 0.700  |
| 27/10/2013 00:00:00 | ♃  | 20°36'45" ♉ | -26°34'53" | 0-03°29'13" | 01°01'46"  | 0.708  |
| 27/10/2013 00:00:00 | ♃  | 06°49'18" ♉ | 10°24'28"  | 01°30'34"   | 00°35'05"  | 1.959  |
| 27/10/2013 00:00:00 | ♃  | 20°18'10" ♉ | 21°52'27"  | -00°01'37"  | 00°02'12"  | 4.846  |
| 27/10/2013 00:00:00 | ♃  | 12°58'51" ♉ | -13°42'25" | 02°07'25"   | 00°07'08"  | 10.845 |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 27/10/2013 00:00:00 | ♃ | 09°37'15" ♏ | 03°08'47"  | -00°43'22" | -00°02'08" | 19.128 |
| 27/10/2013 00:00:00 | ♃ | 02°40'01" ♏ | -11°09'40" | -00°41'06" | -00°00'35" | 29.488 |
| 27/10/2013 00:00:00 | ♃ | 09°19'37" ♏ | -20°12'56" | 02°53'56"  | 00°01'05"  | 32.931 |
| 27/10/2013 00:00:00 | ♃ | 07°46'12" ♏ | -14°05'56" | 00°00'00"  | 00°00'00"  | 0.002  |
| 27/10/2013 00:00:00 | ♃ | 09°23'07" ♏ | -03°07'55" | 05°18'09"  | -00°01'19" | 17.063 |
| 27/10/2013 00:00:00 | ♃ | 15°35'03" ♏ | 17°47'24"  | -04°45'59" | 00°06'42"  | 0.003  |
| 27/10/2013 00:00:00 | ♃ | 07°46'12" ♏ | -14°05'56" | 00°00'00"  | 00°00'00"  | 0.002  |
| 27/10/2013 00:00:00 | ♃ | 15°50'17" ♏ | 17°37'17"  | -04°54'26" | -01°07'58" | 0.003  |
| 27/10/2013 00:00:00 | X | 22°17'02" ♏ | -03°28'46" | -13°04'37" | -00°00'35" | 95.495 |
| 27/10/2013 00:00:00 | Y | 24°00'25" ♏ | 07°04'12"  | -12°03'15" | -00°00'34" | 85.525 |
| 28/10/2013 00:00:00 | ♃ | 04°43'41" ♏ | -13°05'44" | -00°00'00" | 00°59'53"  | 0.994  |
| 28/10/2013 00:00:00 | ♃ | 15°53'03" ♏ | 11°04'05"  | -05°14'07" | 12°05'13"  | 0.003  |
| 28/10/2013 00:00:00 | ♃ | 15°18'30" ♏ | -18°21'25" | -02°01'19" | -00°56'58" | 0.690  |
| 28/10/2013 00:00:00 | ♃ | 21°38'22" ♏ | -26°41'07" | -03°31'14" | 01°01'27"  | 0.700  |
| 28/10/2013 00:00:00 | ♃ | 07°24'21" ♏ | 10°11'55"  | 01°31'07"  | 00°35'00"  | 1.952  |
| 28/10/2013 00:00:00 | ♃ | 20°20'17" ♏ | 21°52'16"  | -00°01'30" | 00°02'01"  | 4.831  |
| 28/10/2013 00:00:00 | ♃ | 13°06'00" ♏ | -13°44'37" | 02°07'21"  | 00°07'09"  | 10.847 |
| 28/10/2013 00:00:00 | ♃ | 09°35'07" ♏ | 03°07'58"  | -00°43'20" | -00°02'07" | 19.135 |
| 28/10/2013 00:00:00 | ♃ | 02°39'27" ♏ | -11°09'52" | -00°41'05" | -00°00'33" | 29.503 |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 28/10/2013 00:00:00 | ♁ | 09°20'43" ♁ | -20°13'02" | 02°53'45"  | 00°01'07"  | 32.947 |
| 28/10/2013 00:00:00 | ♁ | 07°46'07" ♁ | -14°05'55" | 00°00'00"  | -00°00'08" | 0.002  |
| 28/10/2013 00:00:00 | ♁ | 09°21'49" ♁ | -03°08'42" | 05°17'50"  | -00°01'16" | 17.078 |
| 28/10/2013 00:00:00 | ♁ | 15°41'46" ♁ | 17°46'19"  | -04°46'19" | 00°06'42"  | 0.003  |
| 28/10/2013 00:00:00 | ♁ | 07°46'07" ♁ | -14°05'55" | 00°00'00"  | -00°00'08" | 0.002  |
| 28/10/2013 00:00:00 | ♁ | 14°29'11" ♁ | 17°48'57"  | -04°51'34" | -01°36'59" | 0.003  |
| 28/10/2013 00:00:00 | X | 22°16'27" ♁ | -03°28'56" | -13°04'33" | -00°00'35" | 95.499 |
| 28/10/2013 00:00:00 | Y | 23°59'51" ♁ | 07°04'01"  | -12°03'18" | -00°00'34" | 85.519 |
| 29/10/2013 00:00:00 | ♁ | 05°43'36" ♁ | -13°25'44" | -00°00'00" | 00°59'55"  | 0.993  |
| 29/10/2013 00:00:00 | ♁ | 28°04'37" ♁ | 07°28'45"  | -04°57'39" | 12°18'36"  | 0.003  |
| 29/10/2013 00:00:00 | ♁ | 14°17'41" ♁ | -17°47'55" | -01°45'08" | -01°04'28" | 0.682  |
| 29/10/2013 00:00:00 | ♁ | 22°39'39" ♁ | -26°46'43" | -03°33'07" | 01°01'07"  | 0.693  |
| 29/10/2013 00:00:00 | ♁ | 07°59'20" ♁ | 09°59'22"  | 01°31'40"  | 00°34'56"  | 1.944  |
| 29/10/2013 00:00:00 | ♁ | 20°22'12" ♁ | 21°52'05"  | -00°01'23" | 00°01'49"  | 4.816  |
| 29/10/2013 00:00:00 | ♁ | 13°13'09" ♁ | -13°46'48" | 02°07'19"  | 00°07'09"  | 10.849 |
| 29/10/2013 00:00:00 | ♁ | 09°33'00" ♁ | 03°07'10"  | -00°43'19" | -00°02'05" | 19.143 |
| 29/10/2013 00:00:00 | ♁ | 02°38'55" ♁ | -11°10'03" | -00°41'04" | -00°00'31" | 29.519 |
| 29/10/2013 00:00:00 | ♁ | 09°21'51" ♁ | -20°13'08" | 02°53'34"  | 00°01'08"  | 32.963 |
| 29/10/2013 00:00:00 | ♁ | 07°45'57" ♁ | -14°05'51" | 00°00'00"  | -00°00'10" | 0.002  |



Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 29/10/2013 00:00:00 | ♄ | 09°20'34" ♉ | -03°09'27" | 05°17'30"  | -00°01'13" | 17.093 |
| 29/10/2013 00:00:00 | ♁ | 15°48'28" ♉ | 17°45'13"  | -04°46'39" | 00°06'42"  | 0.003  |
| 29/10/2013 00:00:00 | ♁ | 07°45'57" ♉ | -14°05'51" | 00°00'00"  | -00°00'10" | 0.002  |
| 29/10/2013 00:00:00 | ♁ | 12°31'59" ♉ | 18°04'45"  | -04°47'09" | -02°18'42" | 0.003  |
| 29/10/2013 00:00:00 | X | 22°15'52" ♉ | -03°29'05" | -13°04'29" | -00°00'35" | 95.503 |
| 29/10/2013 00:00:00 | Y | 23°59'16" ♉ | 07°03'51"  | -12°03'20" | -00°00'34" | 85.513 |
| 30/10/2013 00:00:00 | ♁ | 06°43'33" ♉ | -13°45'31" | -00°00'00" | 00°59'58"  | 0.993  |
| 30/10/2013 00:00:00 | ♁ | 10°31'35" ♉ | 03°29'47"  | -04°27'02" | 12°35'54"  | 0.003  |
| 30/10/2013 00:00:00 | ♁ | 13°09'58" ♉ | -17°10'37" | -01°27'25" | -01°10'41" | 0.676  |
| 30/10/2013 00:00:00 | ♁ | 23°40'37" ♉ | -26°51'42" | -03°34'53" | 01°00'47"  | 0.685  |
| 30/10/2013 00:00:00 | ♁ | 08°34'14" ♉ | 09°46'48"  | 01°32'13"  | 00°34'52"  | 1.936  |
| 30/10/2013 00:00:00 | ♁ | 20°23'56" ♉ | 21°51'57"  | -00°01'16" | 00°01'37"  | 4.801  |
| 30/10/2013 00:00:00 | ♁ | 13°20'19" ♉ | -13°48'58" | 02°07'16"  | 00°07'10"  | 10.851 |
| 30/10/2013 00:00:00 | ♁ | 09°30'55" ♉ | 03°06'22"  | -00°43'18" | -00°02'04" | 19.150 |
| 30/10/2013 00:00:00 | ♁ | 02°38'24" ♉ | -11°10'13" | -00°41'04" | -00°00'29" | 29.534 |
| 30/10/2013 00:00:00 | ♁ | 09°23'01" ♉ | -20°13'14" | 02°53'23"  | 00°01'10"  | 32.978 |
| 30/10/2013 00:00:00 | ♁ | 07°45'48" ♉ | -14°05'48" | 00°00'00"  | -00°00'07" | 0.002  |
| 30/10/2013 00:00:00 | ♁ | 09°19'23" ♉ | -03°10'12" | 05°17'11"  | -00°01'10" | 17.109 |
| 30/10/2013 00:00:00 | ♁ | 15°55'11" ♉ | 17°44'08"  | -04°46'58" | 00°06'42"  | 0.003  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 30/10/2013 00:00:00 | T♄ | 07°45'48" ♍ | -14°05'48" | 00°00'00"  | -00°00'07" | 0.002  |
| 30/10/2013 00:00:00 | T♄ | 09°51'22" ♉ | 18°24'20"  | -04°40'34" | -03°01'23" | 0.003  |
| 30/10/2013 00:00:00 | X  | 22°15'17" ♈ | -03°29'13" | -13°04'25" | -00°00'34" | 95.507 |
| 30/10/2013 00:00:00 | Y  | 23°58'42" ♀ | 07°03'40"  | -12°03'23" | -00°00'35" | 85.507 |
| 31/10/2013 00:00:00 | ☉  | 07°43'32" ♍ | -14°05'05" | -00°00'00" | 01°00'00"  | 0.993  |
| 31/10/2013 00:00:00 | ☾  | 23°17'25" ♎ | -00°44'41" | -03°42'36" | 12°56'09"  | 0.003  |
| 31/10/2013 00:00:00 | ♁  | 11°56'53" ♍ | -16°30'10" | -01°08'25" | -01°15'10" | 0.672  |
| 31/10/2013 00:00:00 | ♂  | 24°41'15" ♈ | -26°56'04" | -03°36'31" | 01°00'26"  | 0.677  |
| 31/10/2013 00:00:00 | ♂  | 09°09'04" ♎ | 09°34'13"  | 01°32'47"  | 00°34'47"  | 1.929  |
| 31/10/2013 00:00:00 | ♃  | 20°25'28" ♉ | 21°51'50"  | -00°01'08" | 00°01'25"  | 4.786  |
| 31/10/2013 00:00:00 | ♅  | 13°27'30" ♍ | -13°51'09" | 02°07'13"  | 00°07'10"  | 10.853 |
| 31/10/2013 00:00:00 | ♁  | 09°28'52" ♈ | 03°05'34"  | -00°43'16" | -00°02'02" | 19.159 |
| 31/10/2013 00:00:00 | ♃  | 02°37'55" ♈ | -11°10'23" | -00°41'03" | -00°00'27" | 29.550 |
| 31/10/2013 00:00:00 | ♁  | 09°24'12" ♈ | -20°13'19" | 02°53'13"  | 00°01'11"  | 32.994 |
| 31/10/2013 00:00:00 | ♁  | 07°45'44" ♍ | -14°05'47" | 00°00'00"  | -00°00'00" | 0.002  |
| 31/10/2013 00:00:00 | ♁  | 09°18'14" ♈ | -03°10'55" | 05°16'51"  | -00°01'06" | 17.124 |
| 31/10/2013 00:00:00 | ♁  | 16°01'54" ♉ | 17°43'02"  | -04°47'18" | 00°06'42"  | 0.003  |
| 31/10/2013 00:00:00 | T♄ | 07°45'44" ♍ | -14°05'47" | 00°00'00"  | -00°00'00" | 0.002  |
| 31/10/2013 00:00:00 | T♄ | 06°34'21" ♉ | 18°45'01"  | -04°31'38" | -03°28'44" | 0.003  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 31/10/2013 00:00:00 | X  | 22°14'42" ♄ | -03°29'22" | -13°04'21" | -00°00'34" | 95.511 |
| 31/10/2013 00:00:00 | Y  | 23°58'06" ♄ | 07°03'29"  | -12°03'25" | -00°00'35" | 85.502 |
| 01/11/2013 00:00:00 | ☉  | 08°43'33" ♍ | -14°24'26" | -00°00'00" | 01°00'02"  | 0.993  |
| 01/11/2013 00:00:00 | ☾  | 06°24'27" ♋ | -05°04'32" | -02°45'26" | 13°18'05"  | 0.003  |
| 01/11/2013 00:00:00 | ♀  | 10°40'19" ♍ | -15°47'22" | -00°48'26" | -01°17'35" | 0.672  |
| 01/11/2013 00:00:00 | ♀  | 25°41'31" ♄ | -26°59'49" | -03°38'01" | 01°00'05"  | 0.670  |
| 01/11/2013 00:00:00 | ♂  | 09°43'49" ♍ | 09°21'37"  | 01°33'20"  | 00°34'42"  | 1.921  |
| 01/11/2013 00:00:00 | ♃  | 20°26'48" ♁ | 21°51'46"  | -00°01'01" | 00°01'14"  | 4.772  |
| 01/11/2013 00:00:00 | ♅  | 13°34'41" ♍ | -13°53'19" | 02°07'11"  | 00°07'11"  | 10.855 |
| 01/11/2013 00:00:00 | ♁  | 09°26'50" ♄ | 03°04'48"  | -00°43'15" | -00°02'01" | 19.167 |
| 01/11/2013 00:00:00 | ♃  | 02°37'29" ♄ | -11°10'32" | -00°41'02" | -00°00'25" | 29.565 |
| 01/11/2013 00:00:00 | ♁  | 09°25'25" ♄ | -20°13'25" | 02°53'02"  | 00°01'13"  | 33.010 |
| 01/11/2013 00:00:00 | ♁  | 07°45'47" ♍ | -14°05'48" | 00°00'00"  | 00°00'06"  | 0.002  |
| 01/11/2013 00:00:00 | ♃  | 09°17'09" ♄ | -03°11'38" | 05°16'32"  | -00°01'03" | 17.140 |
| 01/11/2013 00:00:00 | ♁  | 16°08'36" ♁ | 17°41'57"  | -04°47'37" | 00°06'42"  | 0.003  |
| 01/11/2013 00:00:00 | T♁ | 07°45'47" ♍ | -14°05'48" | 00°00'00"  | 00°00'06"  | 0.002  |
| 01/11/2013 00:00:00 | T♁ | 03°03'33" ♁ | 19°02'58"  | -04°21'05" | -03°27'33" | 0.003  |
| 01/11/2013 00:00:00 | X  | 22°14'07" ♄ | -03°29'31" | -13°04'17" | -00°00'34" | 95.516 |
| 01/11/2013 00:00:00 | Y  | 23°57'31" ♄ | 07°03'19"  | -12°03'28" | -00°00'35" | 85.497 |

Ephemerides year 2013

|                     |   |             |            |             |            |        |
|---------------------|---|-------------|------------|-------------|------------|--------|
| 02/11/2013 00:00:00 | ☉ | 09°43'36" ♍ | -14°43'33" | -00°00'00"  | 01°00'04"  | 0.992  |
| 02/11/2013 00:00:00 | ☾ | 19°53'35" ♋ | -09°17'02" | -01°37'37"  | 13°40'03"  | 0.003  |
| 02/11/2013 00:00:00 | ♀ | 09°22'29" ♍ | -15°03'16" | -00°27'52"  | -01°17'40" | 0.674  |
| 02/11/2013 00:00:00 | ♀ | 26°41'25" ♂ | -27°02'58" | 0-03°39'23" | 00°59'42"  | 0.662  |
| 02/11/2013 00:00:00 | ♂ | 10°18'29" ♍ | 09°09'00"  | 01°33'54"   | 00°34'38"  | 1.913  |
| 02/11/2013 00:00:00 | ♃ | 20°27'56" ☊ | 21°51'43"  | -00°00'54"  | 00°01'02"  | 4.757  |
| 02/11/2013 00:00:00 | ♄ | 13°41'52" ♍ | -13°55'29" | 02°07'08"   | 00°07'11"  | 10.856 |
| 02/11/2013 00:00:00 | ♅ | 09°24'50" ♏ | 03°04'02"  | -00°43'13"  | -00°01'59" | 19.176 |
| 02/11/2013 00:00:00 | ♆ | 02°37'04" ♏ | -11°10'40" | -00°41'02"  | -00°00'23" | 29.581 |
| 02/11/2013 00:00:00 | ♇ | 09°26'39" ♁ | -20°13'30" | 02°52'52"   | 00°01'15"  | 33.025 |
| 02/11/2013 00:00:00 | ♈ | 07°45'55" ♍ | -14°05'51" | 00°00'00"   | 00°00'07"  | 0.002  |
| 02/11/2013 00:00:00 | ♉ | 09°16'07" ♏ | -03°12'19" | 05°16'12"   | -00°01'00" | 17.155 |
| 02/11/2013 00:00:00 | ♊ | 16°15'19" ☊ | 17°40'51"  | -04°47'57"  | 00°06'42"  | 0.003  |
| 02/11/2013 00:00:00 | ♋ | 07°45'55" ♍ | -14°05'51" | 00°00'00"   | 00°00'07"  | 0.002  |
| 02/11/2013 00:00:00 | ♌ | 29°49'03" ♏ | 19°15'39"  | -04°10'27"  | -02°57'26" | 0.003  |
| 02/11/2013 00:00:00 | ♍ | 22°13'33" ♏ | -03°29'39" | -13°04'13"  | -00°00'34" | 95.521 |
| 02/11/2013 00:00:00 | ♎ | 23°56'56" ♂ | 07°03'09"  | -12°03'30"  | -00°00'35" | 85.492 |
| 03/11/2013 00:00:00 | ☉ | 10°43'42" ♍ | -15°02'25" | -00°00'00"  | 01°00'06"  | 0.992  |
| 03/11/2013 00:00:00 | ☾ | 03°43'59" ♍ | -13°06'37" | -00°22'22"  | 14°00'16"  | 0.002  |

Ephemerides year 2013

|                     |    |             |            |             |            |        |
|---------------------|----|-------------|------------|-------------|------------|--------|
| 03/11/2013 00:00:00 | ♀  | 08°05'47" ♍ | -14°19'03" | -00°07'09"  | -01°15'18" | 0.679  |
| 03/11/2013 00:00:00 | ♀  | 27°40'56" ♈ | -27°05'29" | o-03°40'37" | 00°59'19"  | 0.654  |
| 03/11/2013 00:00:00 | ♂  | 10°53'05" ♉ | 08°56'23"  | 01°34'27"   | 00°34'33"  | 1.905  |
| 03/11/2013 00:00:00 | ♋  | 20°28'52" ♉ | 21°51'41"  | -00°00'46"  | 00°00'50"  | 4.742  |
| 03/11/2013 00:00:00 | ♌  | 13°49'04" ♍ | -13°57'39" | 02°07'06"   | 00°07'11"  | 10.857 |
| 03/11/2013 00:00:00 | ♍  | 09°22'51" ♏ | 03°03'17"  | -00°43'12"  | -00°01'57" | 19.185 |
| 03/11/2013 00:00:00 | ♎  | 02°36'41" ♏ | -11°10'48" | -00°41'01"  | -00°00'21" | 29.597 |
| 03/11/2013 00:00:00 | ♏  | 09°27'55" ♏ | -20°13'35" | 02°52'41"   | 00°01'16"  | 33.040 |
| 03/11/2013 00:00:00 | ♏  | 07°46'01" ♍ | -14°05'52" | 00°00'00"   | 00°00'02"  | 0.002  |
| 03/11/2013 00:00:00 | ♏  | 09°15'08" ♏ | -03°12'59" | 05°15'52"   | -00°00'56" | 17.171 |
| 03/11/2013 00:00:00 | ♏  | 16°22'02" ♉ | 17°39'45"  | -04°48'16"  | 00°06'42"  | 0.003  |
| 03/11/2013 00:00:00 | T♏ | 07°46'01" ♍ | -14°05'52" | 00°00'00"   | 00°00'02"  | 0.002  |
| 03/11/2013 00:00:00 | T♏ | 27°13'45" ♏ | 19°23'03"  | -04°01'22"  | -02°12'16" | 0.003  |
| 03/11/2013 00:00:00 | X  | 22°12'58" ♏ | -03°29'47" | -13°04'08"  | -00°00'34" | 95.526 |
| 03/11/2013 00:00:00 | Y  | 23°56'20" ♏ | 07°02'58"  | -12°03'32"  | -00°00'35" | 85.487 |
| 04/11/2013 00:00:00 | ☉  | 11°43'49" ♍ | -15°21'03" | -00°00'00"  | 01°00'08"  | 0.992  |
| 04/11/2013 00:00:00 | ☾  | 17°52'56" ♍ | -16°15'50" | 00°55'51"   | 14°16'54"  | 0.002  |
| 04/11/2013 00:00:00 | ♀  | 06°52'41" ♍ | -13°35'58" | 00°13'14"   | -01°10'31" | 0.687  |
| 04/11/2013 00:00:00 | ♀  | 28°40'04" ♈ | -27°07'24" | o-03°41'41" | 00°58'55"  | 0.647  |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 04/11/2013 00:00:00 | ♂ | 11°27'36" ♍ | 08°43'46"  | 01°35'01"  | 00°34'28"  | 1.897  |
| 04/11/2013 00:00:00 | ♃ | 20°29'37" ♉ | 21°51'42"  | -00°00'39" | 00°00'38"  | 4.728  |
| 04/11/2013 00:00:00 | ♅ | 13°56'16" ♋ | -13°59'48" | 02°07'05"  | 00°07'12"  | 10.858 |
| 04/11/2013 00:00:00 | ♁ | 09°20'54" ♈ | 03°02'32"  | -00°43'11" | -00°01'55" | 19.194 |
| 04/11/2013 00:00:00 | ♆ | 02°36'20" ♉ | -11°10'55" | -00°41'00" | -00°00'19" | 29.613 |
| 04/11/2013 00:00:00 | ♁ | 09°29'12" ♈ | -20°13'40" | 02°52'31"  | 00°01'18"  | 33.055 |
| 04/11/2013 00:00:00 | ♁ | 07°45'58" ♋ | -14°05'52" | 00°00'00"  | -00°00'08" | 0.002  |
| 04/11/2013 00:00:00 | ♃ | 09°14'13" ♈ | -03°13'38" | 05°15'32"  | -00°00'53" | 17.187 |
| 04/11/2013 00:00:00 | ♁ | 16°28'45" ♉ | 17°38'38"  | -04°48'35" | 00°06'42"  | 0.003  |
| 04/11/2013 00:00:00 | ♁ | 07°45'58" ♋ | -14°05'52" | 00°00'00"  | -00°00'08" | 0.002  |
| 04/11/2013 00:00:00 | ♁ | 25°23'01" ♈ | 19°26'51"  | -03°54'34" | -01°31'20" | 0.003  |
| 04/11/2013 00:00:00 | X | 22°12'24" ♈ | -03°29'55" | -13°04'03" | -00°00'33" | 95.532 |
| 04/11/2013 00:00:00 | Y | 23°55'44" ♈ | 07°02'48"  | -12°03'34" | -00°00'35" | 85.483 |
| 05/11/2013 00:00:00 | ♁ | 12°43'58" ♋ | -15°39'26" | -00°00'00" | 01°00'09"  | 0.992  |
| 05/11/2013 00:00:00 | ♃ | 02°16'07" ♈ | -18°27'26" | 02°11'49"  | 14°28'32"  | 0.002  |
| 05/11/2013 00:00:00 | ♁ | 05°45'28" ♋ | -12°55'17" | 00°32'54"  | -01°03'33" | 0.698  |
| 05/11/2013 00:00:00 | ♀ | 29°38'47" ♈ | -27°08'43" | -03°42'37" | 00°58'30"  | 0.639  |
| 05/11/2013 00:00:00 | ♂ | 12°02'02" ♍ | 08°31'08"  | 01°35'35"  | 00°34'23"  | 1.889  |
| 05/11/2013 00:00:00 | ♃ | 20°30'09" ♉ | 21°51'44"  | -00°00'32" | 00°00'26"  | 4.714  |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 05/11/2013 00:00:00 | ♃ | 14°03'28" ♍ | -14°01'57" | 02°07'03"  | 00°07'12"  | 10.858 |
| 05/11/2013 00:00:00 | ♃ | 09°19'00" ♏ | 03°01'48"  | -00°43'09" | -00°01'53" | 19.203 |
| 05/11/2013 00:00:00 | ♃ | 02°36'02" ♏ | -11°11'01" | -00°41'00" | -00°00'17" | 29.630 |
| 05/11/2013 00:00:00 | ♃ | 09°30'32" ♏ | -20°13'45" | 02°52'21"  | 00°01'19"  | 33.070 |
| 05/11/2013 00:00:00 | ♃ | 07°45'41" ♏ | -14°05'46" | 00°00'00"  | -00°00'25" | 0.002  |
| 05/11/2013 00:00:00 | ♃ | 09°13'21" ♏ | -03°14'16" | 05°15'12"  | -00°00'50" | 17.204 |
| 05/11/2013 00:00:00 | ♃ | 16°35'28" ♏ | 17°37'32"  | -04°48'53" | 00°06'42"  | 0.003  |
| 05/11/2013 00:00:00 | ♃ | 07°45'41" ♏ | -14°05'46" | 00°00'00"  | -00°00'25" | 0.002  |
| 05/11/2013 00:00:00 | ♃ | 24°04'45" ♏ | 19°28'47"  | -03°49'36" | -01°09'01" | 0.003  |
| 05/11/2013 00:00:00 | X | 22°11'51" ♏ | -03°30'02" | -13°03'58" | -00°00'33" | 95.538 |
| 05/11/2013 00:00:00 | Y | 23°55'08" ♏ | 07°02'38"  | -12°03'36" | -00°00'36" | 85.479 |
| 06/11/2013 00:00:00 | ♃ | 13°44'09" ♏ | -15°57'33" | 00°00'00"  | 01°00'11"  | 0.991  |
| 06/11/2013 00:00:00 | ♃ | 16°48'01" ♏ | -19°27'46" | 03°20'02"  | 14°34'16"  | 0.002  |
| 06/11/2013 00:00:00 | ♃ | 04°46'10" ♏ | -12°18'05" | 00°51'26"  | -00°54'45" | 0.712  |
| 06/11/2013 00:00:00 | ♃ | 00°37'04" ♏ | -27°09'26" | 03°43'23"  | 00°58'04"  | 0.632  |
| 06/11/2013 00:00:00 | ♃ | 12°36'23" ♏ | 08°18'30"  | 01°36'09"  | 00°34'18"  | 1.881  |
| 06/11/2013 00:00:00 | ♃ | 20°30'30" ♏ | 21°51'49"  | -00°00'24" | 00°00'14"  | 4.700  |
| 06/11/2013 00:00:00 | ♃ | 14°10'40" ♏ | -14°04'05" | 02°07'01"  | 00°07'12"  | 10.858 |
| 06/11/2013 00:00:00 | ♃ | 09°17'07" ♏ | 03°01'06"  | -00°43'07" | -00°01'51" | 19.213 |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 06/11/2013 00:00:00 | ♁ | 02°35'45" ♉ | -11°11'06" | -00°40'59" | -00°00'15" | 29.646 |
| 06/11/2013 00:00:00 | ♁ | 09°31'52" ♉ | -20°13'50" | 02°52'10"  | 00°01'21"  | 33.085 |
| 06/11/2013 00:00:00 | ♁ | 07°45'08" ♉ | -14°05'35" | 00°00'00"  | -00°00'40" | 0.002  |
| 06/11/2013 00:00:00 | ♁ | 09°12'33" ♉ | -03°14'53" | 05°14'51"  | -00°00'46" | 17.220 |
| 06/11/2013 00:00:00 | ♁ | 16°42'11" ♉ | 17°36'25"  | -04°49'12" | 00°06'42"  | 0.003  |
| 06/11/2013 00:00:00 | ♁ | 07°45'08" ♉ | -14°05'35" | 00°00'00"  | -00°00'40" | 0.002  |
| 06/11/2013 00:00:00 | ♁ | 22°57'18" ♉ | 19°29'56"  | -03°45'15" | -01°09'19" | 0.003  |
| 06/11/2013 00:00:00 | X | 22°11'17" ♉ | -03°30'10" | -13°03'53" | -00°00'33" | 95.544 |
| 06/11/2013 00:00:00 | Y | 23°54'32" ♉ | 07°02'28"  | -12°03'37" | -00°00'36" | 85.475 |
| 07/11/2013 00:00:00 | ♁ | 14°44'21" ♉ | -16°15'24" | 00°00'00"  | 01°00'13"  | 0.991  |
| 07/11/2013 00:00:00 | ♁ | 01°22'39" ♉ | -19°10'14" | 04°15'28"  | 14°34'01"  | 0.002  |
| 07/11/2013 00:00:00 | ♁ | 03°56'26" ♉ | -11°45'18" | 01°08'30"  | -00°44'32" | 0.729  |
| 07/11/2013 00:00:00 | ♁ | 01°34'55" ♉ | -27°09'33" | -03°44'01" | 00°57'36"  | 0.624  |
| 07/11/2013 00:00:00 | ♁ | 13°10'39" ♉ | 08°05'52"  | 01°36'42"  | 00°34'13"  | 1.873  |
| 07/11/2013 00:00:00 | ♁ | 20°30'38" ♉ | 21°51'55"  | -00°00'17" | 00°00'02"  | 4.685  |
| 07/11/2013 00:00:00 | ♁ | 14°17'52" ♉ | -14°06'14" | 02°07'00"  | 00°07'12"  | 10.858 |
| 07/11/2013 00:00:00 | ♁ | 09°15'16" ♉ | 03°00'24"  | -00°43'06" | -00°01'49" | 19.223 |
| 07/11/2013 00:00:00 | ♁ | 02°35'30" ♉ | -11°11'10" | -00°40'58" | -00°00'13" | 29.662 |
| 07/11/2013 00:00:00 | ♁ | 09°33'14" ♉ | -20°13'54" | 02°52'00"  | 00°01'22"  | 33.100 |



Ephemerides year 2013

|                     |   |              |            |             |            |        |
|---------------------|---|--------------|------------|-------------|------------|--------|
| 07/11/2013 00:00:00 | ♏ | 07°44'22" ♍r | -14°05'20" | 00°00'00"   | -00°00'49" | 0.002  |
| 07/11/2013 00:00:00 | ♋ | 09°11'48" ♏r | -03°15'29" | 05°14'31"   | -00°00'43" | 17.237 |
| 07/11/2013 00:00:00 | ♌ | 16°48'54" ♎  | 17°35'19"  | -04°49'31"  | 00°06'42"  | 0.003  |
| 07/11/2013 00:00:00 | ♏ | 07°44'22" ♍r | -14°05'20" | 00°00'00"   | -00°00'49" | 0.002  |
| 07/11/2013 00:00:00 | ♑ | 21°41'35" ♏r | 19°30'38"  | -03°40'17"  | -01°22'42" | 0.003  |
| 07/11/2013 00:00:00 | X | 22°10'44" ♏r | -03°30'17" | -13°03'48"  | -00°00'33" | 95.550 |
| 07/11/2013 00:00:00 | Y | 23°53'56" ♏r | 07°02'18"  | -12°03'39"  | -00°00'36" | 85.472 |
| 08/11/2013 00:00:00 | ♏ | 15°44'35" ♍  | -16°32'59" | 00°00'00"   | 01°00'14"  | 0.991  |
| 08/11/2013 00:00:00 | ♎ | 15°54'17" ♏  | -17°36'58" | 04°54'17"   | 14°28'25"  | 0.002  |
| 08/11/2013 00:00:00 | ♌ | 03°17'25" ♍r | -11°17'39" | 01°23'53"   | -00°33'22" | 0.747  |
| 08/11/2013 00:00:00 | ♌ | 02°32'17" ♏  | -27°09'05" | 0-03°44'28" | 00°57'07"  | 0.616  |
| 08/11/2013 00:00:00 | ♏ | 13°44'50" ♎  | 07°53'14"  | 01°37'16"   | 00°34'08"  | 1.865  |
| 08/11/2013 00:00:00 | ♏ | 20°30'35" ♎  | 21°52'03"  | -00°00'09"  | -00°00'09" | 4.671  |
| 08/11/2013 00:00:00 | ♏ | 14°25'05" ♍  | -14°08'21" | 02°06'59"   | 00°07'12"  | 10.858 |
| 08/11/2013 00:00:00 | ♏ | 09°13'27" ♏r | 02°59'42"  | -00°43'04"  | -00°01'47" | 19.233 |
| 08/11/2013 00:00:00 | ♏ | 02°35'18" ♏r | -11°11'14" | -00°40'57"  | -00°00'11" | 29.679 |
| 08/11/2013 00:00:00 | ♏ | 09°34'38" ♏  | -20°13'58" | 02°51'50"   | 00°01'24"  | 33.114 |
| 08/11/2013 00:00:00 | ♏ | 07°43'33" ♍r | -14°05'04" | 00°00'00"   | -00°00'47" | 0.002  |
| 08/11/2013 00:00:00 | ♋ | 09°11'06" ♏r | -03°16'03" | 05°14'10"   | -00°00'40" | 17.253 |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 08/11/2013 00:00:00 | ☾ | 16°55'37" ♉ | 17°34'12"  | -04°49'49" | 00°06'42"  | 0.003  |
| 08/11/2013 00:00:00 | ♁ | 07°43'33" ♉ | -14°05'04" | 00°00'00"  | -00°00'47" | 0.002  |
| 08/11/2013 00:00:00 | ♁ | 20°15'14" ♉ | 19°30'41"  | -03°34'31" | -01°25'49" | 0.003  |
| 08/11/2013 00:00:00 | X | 22°10'11" ♉ | -03°30'24" | -13°03'43" | -00°00'32" | 95.557 |
| 08/11/2013 00:00:00 | Y | 23°53'19" ♉ | 07°02'09"  | -12°03'40" | -00°00'36" | 85.469 |
| 09/11/2013 00:00:00 | ☉ | 16°44'51" ♉ | -16°50'17" | 00°00'00"  | 01°00'16"  | 0.991  |
| 09/11/2013 00:00:00 | ☾ | 00°18'07" ♉ | -14°57'47" | 05°14'13"  | 14°18'38"  | 0.002  |
| 09/11/2013 00:00:00 | ♀ | 02°49'49" ♉ | -10°55'33" | 01°37'25"  | -00°21'45" | 0.768  |
| 09/11/2013 00:00:00 | ♀ | 03°29'10" ♉ | -27°08'02" | 03°44'45"  | 00°56'37"  | 0.609  |
| 09/11/2013 00:00:00 | ♂ | 14°18'56" ♉ | 07°40'36"  | 01°37'50"  | 00°34'02"  | 1.856  |
| 09/11/2013 00:00:00 | ♂ | 20°30'19" ♉ | 21°52'13"  | -00°00'01" | -00°00'21" | 4.658  |
| 09/11/2013 00:00:00 | ♃ | 14°32'17" ♉ | -14°10'29" | 02°06'58"  | 00°07'12"  | 10.858 |
| 09/11/2013 00:00:00 | ♃ | 09°11'41" ♉ | 02°59'02"  | -00°43'03" | -00°01'45" | 19.244 |
| 09/11/2013 00:00:00 | ♃ | 02°35'07" ♉ | -11°11'17" | -00°40'57" | -00°00'09" | 29.696 |
| 09/11/2013 00:00:00 | ♃ | 09°36'03" ♉ | -20°14'02" | 02°51'40"  | 00°01'25"  | 33.128 |
| 09/11/2013 00:00:00 | ♁ | 07°42'51" ♉ | -14°04'51" | 00°00'00"  | -00°00'32" | 0.002  |
| 09/11/2013 00:00:00 | ♃ | 09°10'28" ♉ | -03°16'37" | 05°13'50"  | -00°00'36" | 17.270 |
| 09/11/2013 00:00:00 | ☾ | 17°02'19" ♉ | 17°33'05"  | -04°50'07" | 00°06'42"  | 0.003  |
| 09/11/2013 00:00:00 | ♁ | 07°42'51" ♉ | -14°04'51" | 00°00'00"  | -00°00'32" | 0.002  |

Ephemerides year 2013

|                     |    |             |            |             |            |        |
|---------------------|----|-------------|------------|-------------|------------|--------|
| 09/11/2013 00:00:00 | T♄ | 19°02'50" ♀ | 19°30'06"  | -03°29'36"  | -00°50'54" | 0.003  |
| 09/11/2013 00:00:00 | X  | 22°09'38" ♀ | -03°30'31" | -13°03'38"  | -00°00'32" | 95.564 |
| 09/11/2013 00:00:00 | Y  | 23°52'43" ♂ | 07°01'59"  | -12°03'41"  | -00°00'36" | 85.466 |
| 10/11/2013 00:00:00 | ☉  | 17°45'08" ♎ | -17°07'18" | 00°00'00"   | 01°00'17"  | 0.990  |
| 10/11/2013 00:00:00 | ☾  | 14°30'39" ♋ | -11°27'12" | 05°14'38"   | 14°06'04"  | 0.002  |
| 10/11/2013 00:00:00 | ♀  | 02°33'55" ♎ | -10°39'12" | 01°49'02"   | -00°10'04" | 0.791  |
| 10/11/2013 00:00:00 | ♀  | 04°25'32" ♋ | -27°06'25" | 0-03°44'52" | 00°56'06"  | 0.601  |
| 10/11/2013 00:00:00 | ♂  | 14°52'56" ♎ | 07°27'58"  | 01°38'24"   | 00°33'57"  | 1.848  |
| 10/11/2013 00:00:00 | ♃  | 20°29'52" ♉ | 21°52'24"  | 00°00'05"   | -00°00'33" | 4.644  |
| 10/11/2013 00:00:00 | ♅  | 14°39'29" ♎ | -14°12'36" | 02°06'57"   | 00°07'11"  | 10.857 |
| 10/11/2013 00:00:00 | ♁  | 09°09'56" ♀ | 02°58'22"  | -00°43'01"  | -00°01'43" | 19.254 |
| 10/11/2013 00:00:00 | ♃  | 02°34'59" ♉ | -11°11'20" | -00°40'56"  | -00°00'07" | 29.712 |
| 10/11/2013 00:00:00 | ♁  | 09°37'30" ♋ | -20°14'06" | 02°51'30"   | 00°01'27"  | 33.143 |
| 10/11/2013 00:00:00 | ♁  | 07°42'30" ♎ | -14°04'44" | 00°00'00"   | -00°00'07" | 0.002  |
| 10/11/2013 00:00:00 | ♃  | 09°09'53" ♉ | -03°17'09" | 05°13'29"   | -00°00'33" | 17.287 |
| 10/11/2013 00:00:00 | ♁  | 17°09'02" ♉ | 17°31'58"  | -04°50'25"  | 00°06'42"  | 0.003  |
| 10/11/2013 00:00:00 | T♁ | 07°42'30" ♎ | -14°04'44" | 00°00'00"   | -00°00'07" | 0.002  |
| 10/11/2013 00:00:00 | T♄ | 18°50'06" ♀ | 19°29'56"  | -03°28'44"  | 00°32'53"  | 0.003  |
| 10/11/2013 00:00:00 | X  | 22°09'06" ♀ | -03°30'37" | -13°03'32"  | -00°00'32" | 95.571 |

Ephemerides year 2013

|                     |   |             |            |             |            |        |
|---------------------|---|-------------|------------|-------------|------------|--------|
| 10/11/2013 00:00:00 | Y | 23°52'06" ♄ | 07°01'50"  | -12°03'42"  | -00°00'36" | 85.463 |
| 11/11/2013 00:00:00 | ☉ | 18°45'26" ♍ | -17°24'02" | 00°00'00"   | 01°00'18"  | 0.990  |
| 11/11/2013 00:00:00 | ☾ | 28°29'45" ♋ | -07°21'28" | 04°56'20"   | 13°51'58"  | 0.003  |
| 11/11/2013 00:00:00 | ♀ | 02°29'34" ♍ | -10°28'35" | 01°58'45"   | 00°01'18"  | 0.815  |
| 11/11/2013 00:00:00 | ♀ | 05°21'23" ♁ | -27°04'14" | 0-03°44'48" | 00°55'34"  | 0.594  |
| 11/11/2013 00:00:00 | ♂ | 15°26'50" ♎ | 07°15'21"  | 01°38'58"   | 00°33'52"  | 1.840  |
| 11/11/2013 00:00:00 | ♃ | 20°29'12" ♄ | 21°52'38"  | 00°00'13"   | -00°00'45" | 4.630  |
| 11/11/2013 00:00:00 | ♅ | 14°46'40" ♍ | -14°14'42" | 02°06'56"   | 00°07'11"  | 10.856 |
| 11/11/2013 00:00:00 | ♁ | 09°08'13" ♄ | 02°57'43"  | -00°42'59"  | -00°01'41" | 19.265 |
| 11/11/2013 00:00:00 | ♃ | 02°34'52" ♄ | -11°11'21" | -00°40'55"  | -00°00'05" | 29.729 |
| 11/11/2013 00:00:00 | ♁ | 09°38'57" ♁ | -20°14'10" | 02°51'20"   | 00°01'28"  | 33.156 |
| 11/11/2013 00:00:00 | ♁ | 07°42'39" ♍ | -14°04'47" | 00°00'00"   | 00°00'23"  | 0.002  |
| 11/11/2013 00:00:00 | ♃ | 09°09'21" ♄ | -03°17'40" | 05°13'08"   | -00°00'29" | 17.304 |
| 11/11/2013 00:00:00 | ♀ | 17°15'45" ♄ | 17°30'50"  | -04°50'43"  | 00°06'42"  | 0.003  |
| 11/11/2013 00:00:00 | ♁ | 07°42'39" ♍ | -14°04'47" | 00°00'00"   | 00°00'23"  | 0.002  |
| 11/11/2013 00:00:00 | ♃ | 20°19'04" ♀ | 19°30'39"  | -03°34'49"  | 02°27'31"  | 0.003  |
| 11/11/2013 00:00:00 | X | 22°08'34" ♄ | -03°30'43" | -13°03'26"  | -00°00'32" | 95.578 |
| 11/11/2013 00:00:00 | Y | 23°51'30" ♄ | 07°01'41"  | -12°03'43"  | -00°00'36" | 85.461 |
| 12/11/2013 00:00:00 | ☉ | 19°45'45" ♍ | -17°40'27" | 00°00'00"   | 01°00'20"  | 0.990  |

Ephemerides year 2013

|                     |   |             |            |             |            |        |
|---------------------|---|-------------|------------|-------------|------------|--------|
| 12/11/2013 00:00:00 | ♃ | 12°14'27" ♈ | -02°56'24" | 04°21'16"   | 13°37'25"  | 0.003  |
| 12/11/2013 00:00:00 | ♆ | 02°36'20" ♎ | -10°23'30" | 02°06'37"   | 00°12'08"  | 0.839  |
| 12/11/2013 00:00:00 | ♀ | 06°16'40" ♉ | -27°01'30" | 0-03°44'34" | 00°55'00"  | 0.586  |
| 12/11/2013 00:00:00 | ♂ | 16°00'40" ♏ | 07°02'45"  | 01°39'32"   | 00°33'46"  | 1.831  |
| 12/11/2013 00:00:00 | ♂ | 20°28'20" ♉ | 21°52'53"  | 00°00'21"   | -00°00'57" | 4.617  |
| 12/11/2013 00:00:00 | ♃ | 14°53'51" ♎ | -14°16'48" | 02°06'56"   | 00°07'11"  | 10.854 |
| 12/11/2013 00:00:00 | ♃ | 09°06'33" ♏ | 02°57'05"  | -00°42'57"  | -00°01'39" | 19.277 |
| 12/11/2013 00:00:00 | ♃ | 02°34'47" ♈ | -11°11'22" | -00°40'54"  | -00°00'03" | 29.746 |
| 12/11/2013 00:00:00 | ♃ | 09°40'26" ♉ | -20°14'13" | 02°51'10"   | 00°01'29"  | 33.170 |
| 12/11/2013 00:00:00 | ♎ | 07°43'17" ♎ | -14°04'59" | 00°00'00"   | 00°00'52"  | 0.002  |
| 12/11/2013 00:00:00 | ♃ | 09°08'53" ♈ | -03°18'10" | 05°12'48"   | -00°00'26" | 17.321 |
| 12/11/2013 00:00:00 | ♃ | 17°22'28" ♉ | 17°29'43"  | -04°51'01"  | 00°06'42"  | 0.003  |
| 12/11/2013 00:00:00 | ♎ | 07°43'17" ♎ | -14°04'59" | 00°00'00"   | 00°00'52"  | 0.002  |
| 12/11/2013 00:00:00 | ♃ | 23°44'01" ♉ | 19°29'12"  | -03°48'15"  | 04°18'56"  | 0.003  |
| 12/11/2013 00:00:00 | X | 22°08'02" ♏ | -03°30'50" | -13°03'20"  | -00°00'31" | 95.586 |
| 12/11/2013 00:00:00 | Y | 23°50'53" ♉ | 07°01'31"  | -12°03'44"  | -00°00'36" | 85.459 |
| 13/11/2013 00:00:00 | ♃ | 20°46'06" ♎ | -17°56'34" | 00°00'00"   | 01°00'21"  | 0.990  |
| 13/11/2013 00:00:00 | ♃ | 25°44'39" ♈ | 01°33'21"  | 03°32'14"   | 13°23'02"  | 0.003  |
| 13/11/2013 00:00:00 | ♆ | 02°53'36" ♎ | -10°23'38" | 02°12'43"   | 00°22'15"  | 0.865  |

Ephemerides year 2013

|                     |    |             |            |             |            |        |
|---------------------|----|-------------|------------|-------------|------------|--------|
| 13/11/2013 00:00:00 | ♀  | 07°11'23" ♍ | -26°58'13" | ♁-03°44'08" | 00°54'24"  | 0.579  |
| 13/11/2013 00:00:00 | ♂  | 16°34'24" ♎ | 06°50'09"  | 01°40'06"   | 00°33'41"  | 1.823  |
| 13/11/2013 00:00:00 | ♃  | 20°27'17" ♄ | 21°53'11"  | 00°00'29"   | -00°01'09" | 4.603  |
| 13/11/2013 00:00:00 | ♅  | 15°01'02" ♎ | -14°18'53" | 02°06'55"   | 00°07'10"  | 10.853 |
| 13/11/2013 00:00:00 | ♁  | 09°04'54" ♈ | 02°56'28"  | -00°42'56"  | -00°01'37" | 19.288 |
| 13/11/2013 00:00:00 | ♃  | 02°34'45" ♈ | -11°11'23" | -00°40'53"  | -00°00'01" | 29.763 |
| 13/11/2013 00:00:00 | ♁  | 09°41'57" ♍ | -20°14'17" | 02°51'00"   | 00°01'31"  | 33.184 |
| 13/11/2013 00:00:00 | ♁  | 07°44'20" ♎ | -14°05'20" | 00°00'00"   | 00°01'09"  | 0.002  |
| 13/11/2013 00:00:00 | ♃  | 09°08'28" ♈ | -03°18'38" | 05°12'27"   | -00°00'22" | 17.338 |
| 13/11/2013 00:00:00 | ♁  | 17°29'11" ♄ | 17°28'35"  | -04°51'19"  | 00°06'42"  | 0.003  |
| 13/11/2013 00:00:00 | T♁ | 07°44'20" ♎ | -14°05'20" | 00°00'00"   | 00°01'09"  | 0.002  |
| 13/11/2013 00:00:00 | T♃ | 28°45'33" ♈ | 19°19'17"  | -04°06'29"  | 05°36'36"  | 0.003  |
| 13/11/2013 00:00:00 | X  | 22°07'30" ♈ | -03°30'55" | -13°03'15"  | -00°00'31" | 95.594 |
| 13/11/2013 00:00:00 | Y  | 23°50'16" ♄ | 07°01'22"  | -12°03'44"  | -00°00'36" | 85.457 |
| 14/11/2013 00:00:00 | ♁  | 21°46'29" ♎ | -18°12'22" | -00°00'00"  | 01°00'23"  | 0.989  |
| 14/11/2013 00:00:00 | ♃  | 09°00'43" ♈ | 05°54'32"  | 02°32'35"   | 13°09'12"  | 0.003  |
| 14/11/2013 00:00:00 | ♃  | 03°20'34" ♎ | -10°28'33" | 02°17'11"   | 00°31'31"  | 0.891  |
| 14/11/2013 00:00:00 | ♀  | 08°05'29" ♍ | -26°54'23" | ♁-03°43'31" | 00°53'48"  | 0.571  |
| 14/11/2013 00:00:00 | ♂  | 17°08'02" ♎ | 06°37'33"  | 01°40'41"   | 00°33'35"  | 1.815  |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 14/11/2013 00:00:00 | ♃ | 20°26'01" ♉ | 21°53'30"  | 00°00'36"  | -00°01'21" | 4.590  |
| 14/11/2013 00:00:00 | ♃ | 15°08'13" ♉ | -14°20'58" | 02°06'55"  | 00°07'10"  | 10.851 |
| 14/11/2013 00:00:00 | ♃ | 09°03'18" ♉ | 02°55'52"  | -00°42'54" | -00°01'34" | 19.300 |
| 14/11/2013 00:00:00 | ♃ | 02°34'44" ♉ | -11°11'22" | -00°40'53" | 00°00'00"  | 29.780 |
| 14/11/2013 00:00:00 | ♃ | 09°43'29" ♉ | -20°14'20" | 02°50'50"  | 00°01'32"  | 33.197 |
| 14/11/2013 00:00:00 | ♃ | 07°45'31" ♉ | -14°05'43" | 00°00'00"  | 00°01'10"  | 0.003  |
| 14/11/2013 00:00:00 | ♃ | 09°08'07" ♉ | -03°19'05" | 05°12'06"  | -00°00'19" | 17.355 |
| 14/11/2013 00:00:00 | ♃ | 17°35'54" ♉ | 17°27'27"  | -04°51'36" | 00°06'42"  | 0.003  |
| 14/11/2013 00:00:00 | ♃ | 07°45'31" ♉ | -14°05'43" | 00°00'00"  | 00°01'10"  | 0.003  |
| 14/11/2013 00:00:00 | ♃ | 04°39'59" ♉ | 18°55'53"  | -04°25'27" | 06°03'03"  | 0.003  |
| 14/11/2013 00:00:00 | X | 22°06'59" ♉ | -03°31'01" | -13°03'08" | -00°00'31" | 95.602 |
| 14/11/2013 00:00:00 | Y | 23°49'39" ♉ | 07°01'13"  | -12°03'44" | -00°00'36" | 85.456 |
| 15/11/2013 00:00:00 | ♃ | 22°46'53" ♉ | -18°27'51" | -00°00'00" | 01°00'24"  | 0.989  |
| 15/11/2013 00:00:00 | ♃ | 22°03'17" ♉ | 09°55'02"  | 01°25'56"  | 12°56'01"  | 0.003  |
| 15/11/2013 00:00:00 | ♃ | 03°56'21" ♉ | -10°37'49" | 02°20'08"  | 00°39'54"  | 0.918  |
| 15/11/2013 00:00:00 | ♃ | 08°58'59" ♉ | -26°50'02" | -03°42'41" | 00°53'10"  | 0.564  |
| 15/11/2013 00:00:00 | ♃ | 17°41'35" ♉ | 06°24'59"  | 01°41'15"  | 00°33'30"  | 1.806  |
| 15/11/2013 00:00:00 | ♃ | 20°24'34" ♉ | 21°53'50"  | 00°00'44"  | -00°01'33" | 4.577  |
| 15/11/2013 00:00:00 | ♃ | 15°15'22" ♉ | -14°23'02" | 02°06'55"  | 00°07'09"  | 10.849 |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 15/11/2013 00:00:00 | ♃ | 09°01'45" ♏ | 02°55'17"  | -00°42'52" | -00°01'32" | 19.311 |
| 15/11/2013 00:00:00 | ♃ | 02°34'46" ♏ | -11°11'21" | -00°40'52" | 00°00'02"  | 29.797 |
| 15/11/2013 00:00:00 | ♃ | 09°45'02" ♏ | -20°14'23" | 02°50'41"  | 00°01'33"  | 33.210 |
| 15/11/2013 00:00:00 | ♃ | 07°46'33" ♏ | -14°06'03" | 00°00'00"  | 00°00'50"  | 0.003  |
| 15/11/2013 00:00:00 | ♃ | 09°07'49" ♏ | -03°19'32" | 05°11'45"  | -00°00'15" | 17.372 |
| 15/11/2013 00:00:00 | ♃ | 17°42'37" ♏ | 17°26'19"  | -04°51'54" | 00°06'42"  | 0.003  |
| 15/11/2013 00:00:00 | ♃ | 07°46'33" ♏ | -14°06'03" | 00°00'00"  | 00°00'50"  | 0.003  |
| 15/11/2013 00:00:00 | ♃ | 10°33'43" ♏ | 18°20'16"  | -04°41'29" | 05°36'05"  | 0.003  |
| 15/11/2013 00:00:00 | X | 22°06'28" ♏ | -03°31'06" | -13°03'02" | -00°00'30" | 95.611 |
| 15/11/2013 00:00:00 | Y | 23°49'02" ♏ | 07°01'05"  | -12°03'45" | -00°00'36" | 85.455 |
| 16/11/2013 00:00:00 | ♃ | 23°47'18" ♏ | -18°43'01" | -00°00'00" | 01°00'26"  | 0.989  |
| 16/11/2013 00:00:00 | ♃ | 04°52'59" ♏ | 13°23'57"  | 00°16'02"  | 12°43'29"  | 0.003  |
| 16/11/2013 00:00:00 | ♃ | 04°40'04" ♏ | -10°50'56" | 02°21'43"  | 00°47'23"  | 0.944  |
| 16/11/2013 00:00:00 | ♃ | 09°51'49" ♏ | -26°45'10" | -03°41'40" | 00°52'30"  | 0.556  |
| 16/11/2013 00:00:00 | ♃ | 18°15'03" ♏ | 06°12'25"  | 01°41'49"  | 00°33'24"  | 1.798  |
| 16/11/2013 00:00:00 | ♃ | 20°22'54" ♏ | 21°54'13"  | 00°00'52"  | -00°01'45" | 4.564  |
| 16/11/2013 00:00:00 | ♃ | 15°22'32" ♏ | -14°25'06" | 02°06'55"  | 00°07'09"  | 10.847 |
| 16/11/2013 00:00:00 | ♃ | 09°00'13" ♏ | 02°54'43"  | -00°42'50" | -00°01'30" | 19.324 |
| 16/11/2013 00:00:00 | ♃ | 02°34'49" ♏ | -11°11'19" | -00°40'51" | 00°00'04"  | 29.814 |



Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 16/11/2013 00:00:00 | ♁ | 09°46'36" ♉ | -20°14'26" | 02°50'31"  | 00°01'35"  | 33.223 |
| 16/11/2013 00:00:00 | ♁ | 07°47'06" ♎ | -14°06'13" | 00°00'00"  | 00°00'11"  | 0.003  |
| 16/11/2013 00:00:00 | ♆ | 09°07'35" ♉ | -03°19'56" | 05°11'24"  | -00°00'12" | 17.390 |
| 16/11/2013 00:00:00 | ♁ | 17°49'20" ♉ | 17°25'11"  | -04°52'11" | 00°06'42"  | 0.003  |
| 16/11/2013 00:00:00 | ♁ | 07°47'06" ♎ | -14°06'13" | 00°00'00"  | 00°00'11"  | 0.003  |
| 16/11/2013 00:00:00 | ♁ | 15°38'11" ♉ | 17°40'14"  | -04°52'50" | 04°27'31"  | 0.003  |
| 16/11/2013 00:00:00 | X | 22°05'57" ♉ | -03°31'12" | -13°02'56" | -00°00'30" | 95.620 |
| 16/11/2013 00:00:00 | Y | 23°48'25" ♉ | 07°00'56"  | -12°03'45" | -00°00'36" | 85.454 |
| 17/11/2013 00:00:00 | ♁ | 24°47'45" ♎ | -18°57'50" | -00°00'00" | 01°00'27"  | 0.989  |
| 17/11/2013 00:00:00 | ♁ | 17°30'30" ♉ | 16°11'52"  | -00°53'29" | 12°31'39"  | 0.003  |
| 17/11/2013 00:00:00 | ♁ | 05°30'50" ♎ | -11°07'24" | 02°22'05"  | 00°54'00"  | 0.970  |
| 17/11/2013 00:00:00 | ♁ | 10°43'59" ♉ | -26°39'47" | 03°40'26"  | 00°51'49"  | 0.549  |
| 17/11/2013 00:00:00 | ♁ | 18°48'25" ♎ | 05°59'53"  | 01°42'24"  | 00°33'19"  | 1.789  |
| 17/11/2013 00:00:00 | ♁ | 20°21'03" ♉ | 21°54'37"  | 00°01'00"  | -00°01'57" | 4.552  |
| 17/11/2013 00:00:00 | ♁ | 15°29'40" ♎ | -14°27'09" | 02°06'56"  | 00°07'08"  | 10.844 |
| 17/11/2013 00:00:00 | ♁ | 08°58'44" ♉ | 02°54'10"  | -00°42'48" | -00°01'27" | 19.336 |
| 17/11/2013 00:00:00 | ♁ | 02°34'55" ♉ | -11°11'16" | -00°40'50" | 00°00'06"  | 29.831 |
| 17/11/2013 00:00:00 | ♁ | 09°48'12" ♉ | -20°14'28" | 02°50'21"  | 00°01'36"  | 33.236 |
| 17/11/2013 00:00:00 | ♁ | 07°46'51" ♎ | -14°06'09" | 00°00'00"  | -00°00'42" | 0.003  |

Ephemerides year 2013

|                     |    |             |            |             |            |        |
|---------------------|----|-------------|------------|-------------|------------|--------|
| 17/11/2013 00:00:00 | ♄  | 09°07'24" ♈ | -03°20'20" | 05°11'02"   | -00°00'08" | 17.407 |
| 17/11/2013 00:00:00 | ♁  | 17°56'02" ♉ | 17°24'03"  | -04°52'28"  | 00°06'42"  | 0.003  |
| 17/11/2013 00:00:00 | ♁♂ | 07°46'51" ♈ | -14°06'09" | 00°00'00"   | -00°00'42" | 0.003  |
| 17/11/2013 00:00:00 | ♁♄ | 19°22'02" ♉ | 17°05'34"  | -04°59'36"  | 02°58'54"  | 0.003  |
| 17/11/2013 00:00:00 | X  | 22°05'27" ♈ | -03°31'16" | -13°02'49"  | -00°00'30" | 95.629 |
| 17/11/2013 00:00:00 | Y  | 23°47'48" ♈ | 07°00'47"  | -12°03'45"  | -00°00'36" | 85.454 |
| 18/11/2013 00:00:00 | ♁  | 25°48'13" ♈ | -19°12'20" | -00°00'00"  | 01°00'29"  | 0.989  |
| 18/11/2013 00:00:00 | ♁  | 29°56'33" ♈ | 18°11'26"  | -01°59'19"  | 12°20'37"  | 0.003  |
| 18/11/2013 00:00:00 | ♁  | 06°27'48" ♈ | -11°26'47" | 02°21'20"   | 00°59'48"  | 0.996  |
| 18/11/2013 00:00:00 | ♁  | 11°35'27" ♈ | -26°33'55" | 0-03°38'58" | 00°51'06"  | 0.541  |
| 18/11/2013 00:00:00 | ♁  | 19°21'41" ♈ | 05°47'21"  | 01°42'58"   | 00°33'13"  | 1.780  |
| 18/11/2013 00:00:00 | ♁  | 20°19'00" ♈ | 21°55'03"  | 00°01'08"   | -00°02'08" | 4.539  |
| 18/11/2013 00:00:00 | ♁  | 15°36'48" ♈ | -14°29'11" | 02°06'56"   | 00°07'07"  | 10.841 |
| 18/11/2013 00:00:00 | ♁  | 08°57'18" ♈ | 02°53'37"  | -00°42'46"  | -00°01'25" | 19.348 |
| 18/11/2013 00:00:00 | ♁  | 02°35'03" ♈ | -11°11'12" | -00°40'50"  | 00°00'08"  | 29.848 |
| 18/11/2013 00:00:00 | ♁  | 09°49'49" ♈ | -20°14'31" | 02°50'12"   | 00°01'37"  | 33.248 |
| 18/11/2013 00:00:00 | ♁  | 07°45'39" ♈ | -14°05'45" | 00°00'00"   | -00°01'41" | 0.003  |
| 18/11/2013 00:00:00 | ♁  | 09°07'17" ♈ | -03°20'42" | 05°10'41"   | -00°00'05" | 17.425 |
| 18/11/2013 00:00:00 | ♁  | 18°02'45" ♈ | 17°22'54"  | -04°52'45"  | 00°06'43"  | 0.003  |

Ephemerides year 2013

|                     |    |             |            |             |            |        |
|---------------------|----|-------------|------------|-------------|------------|--------|
| 18/11/2013 00:00:00 | T♄ | 07°45'39" ♍ | -14°05'45" | 00°00'00"   | -00°01'41" | 0.003  |
| 18/11/2013 00:00:00 | T♄ | 21°37'32" ♉ | 16°42'37"  | -05°02'56"  | 01°34'44"  | 0.003  |
| 18/11/2013 00:00:00 | X  | 22°04'57" ♏ | -03°31'21" | -13°02'43"  | -00°00'29" | 95.638 |
| 18/11/2013 00:00:00 | Y  | 23°47'11" ♏ | 07°00'39"  | -12°03'44"  | -00°00'36" | 85.454 |
| 19/11/2013 00:00:00 | ☉  | 26°48'44" ♍ | -19°26'28" | -00°00'00"  | 01°00'30"  | 0.988  |
| 19/11/2013 00:00:00 | ☾  | 12°12'05" ♀ | 19°18'00"  | -02°58'36"  | 12°10'38"  | 0.003  |
| 19/11/2013 00:00:00 | ♃  | 07°30'11" ♍ | -11°48'37" | 02°19'37"   | 01°04'51"  | 1.021  |
| 19/11/2013 00:00:00 | ♀  | 12°26'11" ♏ | -26°27'34" | 0-03°37'18" | 00°50'21"  | 0.534  |
| 19/11/2013 00:00:00 | ♂  | 19°54'51" ♎ | 05°34'51"  | 01°43'33"   | 00°33'07"  | 1.772  |
| 19/11/2013 00:00:00 | ♂  | 20°16'45" ♉ | 21°55'31"  | 00°01'16"   | -00°02'20" | 4.527  |
| 19/11/2013 00:00:00 | ♃  | 15°43'56" ♍ | -14°31'13" | 02°06'57"   | 00°07'06"  | 10.838 |
| 19/11/2013 00:00:00 | ♃  | 08°55'54" ♏ | 02°53'06"  | -00°42'44"  | -00°01'22" | 19.361 |
| 19/11/2013 00:00:00 | ♃  | 02°35'12" ♀ | -11°11'08" | -00°40'49"  | 00°00'10"  | 29.865 |
| 19/11/2013 00:00:00 | ♂  | 09°51'27" ♏ | -20°14'33" | 02°50'02"   | 00°01'38"  | 33.261 |
| 19/11/2013 00:00:00 | ♁  | 07°43'29" ♍ | -14°05'03" | 00°00'00"   | -00°02'38" | 0.003  |
| 19/11/2013 00:00:00 | ♃  | 09°07'14" ♀ | -03°21'03" | 05°10'20"   | -00°00'01" | 17.442 |
| 19/11/2013 00:00:00 | ♃  | 18°09'28" ♉ | 17°21'45"  | -04°53'02"  | 00°06'43"  | 0.003  |
| 19/11/2013 00:00:00 | T♄ | 07°43'29" ♍ | -14°05'03" | 00°00'00"   | -00°02'38" | 0.003  |
| 19/11/2013 00:00:00 | T♄ | 22°39'35" ♉ | 16°31'45"  | -05°04'10"  | 00°34'20"  | 0.003  |

Ephemerides year 2013

|                     |    |             |            |             |            |        |
|---------------------|----|-------------|------------|-------------|------------|--------|
| 19/11/2013 00:00:00 | X  | 22°04'28" ♄ | -03°31'25" | -13°02'36"  | -00°00'29" | 95.648 |
| 19/11/2013 00:00:00 | Y  | 23°46'34" ♃ | 07°00'31"  | -12°03'44"  | -00°00'36" | 85.454 |
| 20/11/2013 00:00:00 | ☉  | 27°49'15" ♈ | -19°40'16" | -00°00'00"  | 01°00'32"  | 0.988  |
| 20/11/2013 00:00:00 | ☾  | 24°18'20" ♀ | 19°29'58"  | -03°49'00"  | 12°02'08"  | 0.003  |
| 20/11/2013 00:00:00 | ♁  | 08°37'17" ♈ | -12°12'31" | 02°17'03"   | 01°09'13"  | 1.046  |
| 20/11/2013 00:00:00 | ♂  | 13°16'09" ♉ | -26°20'44" | 0-03°35'23" | 00°49'35"  | 0.526  |
| 20/11/2013 00:00:00 | ♂  | 20°27'56" ♈ | 05°22'21"  | 01°44'08"   | 00°33'01"  | 1.763  |
| 20/11/2013 00:00:00 | ♃  | 20°14'19" ♃ | 21°56'01"  | 00°01'24"   | -00°02'32" | 4.514  |
| 20/11/2013 00:00:00 | ♅  | 15°51'02" ♈ | -14°33'14" | 02°06'58"   | 00°07'06"  | 10.835 |
| 20/11/2013 00:00:00 | ♁  | 08°54'33" ♄ | 02°52'36"  | -00°42'42"  | -00°01'20" | 19.374 |
| 20/11/2013 00:00:00 | ♁  | 02°35'24" ♈ | -11°11'03" | -00°40'48"  | 00°00'12"  | 29.882 |
| 20/11/2013 00:00:00 | ♁  | 09°53'07" ♉ | -20°14'35" | 02°49'53"   | 00°01'40"  | 33.273 |
| 20/11/2013 00:00:00 | ♁  | 07°40'27" ♈ | -14°04'04" | 00°00'00"   | -00°03'21" | 0.003  |
| 20/11/2013 00:00:00 | ♁  | 09°07'13" ♈ | -03°21'23" | 05°09'59"   | 00°00'01"  | 17.460 |
| 20/11/2013 00:00:00 | ♁  | 18°16'12" ♃ | 17°20'36"  | -04°53'19"  | 00°06'43"  | 0.003  |
| 20/11/2013 00:00:00 | T♁ | 07°40'27" ♈ | -14°04'04" | 00°00'00"   | -00°03'21" | 0.003  |
| 20/11/2013 00:00:00 | T♁ | 22°56'38" ♃ | 16°28'51"  | -05°04'19"  | 00°04'41"  | 0.003  |
| 20/11/2013 00:00:00 | X  | 22°03'59" ♄ | -03°31'30" | -13°02'29"  | -00°00'28" | 95.657 |
| 20/11/2013 00:00:00 | Y  | 23°45'58" ♃ | 07°00'23"  | -12°03'43"  | -00°00'36" | 85.454 |

Ephemerides year 2013

|                     |   |             |            |             |            |        |
|---------------------|---|-------------|------------|-------------|------------|--------|
| 21/11/2013 00:00:00 | ♁ | 28°49'49" ♎ | -19°53'43" | -00°00'00"  | 01°00'34"  | 0.988  |
| 21/11/2013 00:00:00 | ♃ | 06°17'02" ♈ | 18°48'44"  | -04°28'43"  | 11°55'39"  | 0.003  |
| 21/11/2013 00:00:00 | ♆ | 09°48'25" ♎ | -12°38'06" | 02°13'43"   | 01°12'58"  | 1.070  |
| 21/11/2013 00:00:00 | ♀ | 14°05'21" ♉ | -26°13'27" | 0-03°33'15" | 00°48'47"  | 0.519  |
| 21/11/2013 00:00:00 | ♂ | 21°00'55" ♎ | 05°09'54"  | 01°44'42"   | 00°32'55"  | 1.754  |
| 21/11/2013 00:00:00 | ♃ | 20°11'41" ♈ | 21°56'32"  | 00°01'32"   | -00°02'43" | 4.502  |
| 21/11/2013 00:00:00 | ♄ | 15°58'08" ♎ | -14°35'15" | 02°06'59"   | 00°07'05"  | 10.831 |
| 21/11/2013 00:00:00 | ♅ | 08°53'14" ♏ | 02°52'07"  | -00°42'40"  | -00°01'17" | 19.387 |
| 21/11/2013 00:00:00 | ♆ | 02°35'38" ♎ | -11°10'57" | -00°40'47"  | 00°00'14"  | 29.900 |
| 21/11/2013 00:00:00 | ♁ | 09°54'48" ♉ | -20°14'37" | 02°49'44"   | 00°01'41"  | 33.285 |
| 21/11/2013 00:00:00 | ♁ | 07°36'53" ♎ | -14°02'54" | 00°00'00"   | -00°03'42" | 0.003  |
| 21/11/2013 00:00:00 | ♃ | 09°07'17" ♈ | -03°21'41" | 05°09'38"   | 00°00'05"  | 17.478 |
| 21/11/2013 00:00:00 | ♁ | 18°22'55" ♈ | 17°19'27"  | -04°53'35"  | 00°06'43"  | 0.003  |
| 21/11/2013 00:00:00 | ♁ | 07°36'53" ♎ | -14°02'54" | 00°00'00"   | -00°03'42" | 0.003  |
| 21/11/2013 00:00:00 | ♁ | 22°57'11" ♈ | 16°28'55"  | -05°04'10"  | -00°00'33" | 0.003  |
| 21/11/2013 00:00:00 | X | 22°03'30" ♏ | -03°31'33" | -13°02'22"  | -00°00'28" | 95.667 |
| 21/11/2013 00:00:00 | Y | 23°45'21" ♏ | 07°00'15"  | -12°03'43"  | -00°00'36" | 85.455 |
| 22/11/2013 00:00:00 | ♁ | 29°50'23" ♎ | -20°06'47" | -00°00'00"  | 01°00'35"  | 0.988  |
| 22/11/2013 00:00:00 | ♃ | 18°10'31" ♈ | 17°18'12"  | -04°56'29"  | 11°51'48"  | 0.003  |

Ephemerides year 2013

|                     |    |             |            |              |            |        |
|---------------------|----|-------------|------------|--------------|------------|--------|
| 22/11/2013 00:00:00 | ♀  | 11°03'03" ♍ | -13°05'03" | 02°09'45"    | 01°16'11"  | 1.094  |
| 22/11/2013 00:00:00 | ♀  | 14°53'43" ♍ | -26°05'44" | 0°-03'30'52" | 00°47'57"  | 0.512  |
| 22/11/2013 00:00:00 | ♂  | 21°33'47" ♍ | 04°57'28"  | 01°45'17"    | 00°32'49"  | 1.745  |
| 22/11/2013 00:00:00 | ♃  | 20°08'51" ♃ | 21°57'06"  | 00°01'40"    | -00°02'55" | 4.490  |
| 22/11/2013 00:00:00 | ♃  | 16°05'12" ♍ | -14°37'15" | 02°07'00"    | 00°07'04"  | 10.827 |
| 22/11/2013 00:00:00 | ♃  | 08°51'57" ♃ | 02°51'38"  | -00°42'38"   | -00°01'15" | 19.401 |
| 22/11/2013 00:00:00 | ♃  | 02°35'54" ♃ | -11°10'51" | -00°40'46"   | 00°00'17"  | 29.917 |
| 22/11/2013 00:00:00 | ♃  | 09°56'30" ♍ | -20°14'39" | 02°49'35"    | 00°01'42"  | 33.297 |
| 22/11/2013 00:00:00 | ♃  | 07°33'11" ♍ | -14°01'42" | 00°00'00"    | -00°03'37" | 0.003  |
| 22/11/2013 00:00:00 | ♃  | 09°07'24" ♃ | -03°21'59" | 05°09'16"    | 00°00'08"  | 17.496 |
| 22/11/2013 00:00:00 | ♃  | 18°29'38" ♃ | 17°18'18"  | -04°53'52"   | 00°06'43"  | 0.003  |
| 22/11/2013 00:00:00 | T♃ | 07°33'11" ♍ | -14°01'42" | 00°00'00"    | -00°03'37" | 0.003  |
| 22/11/2013 00:00:00 | T♃ | 22°59'09" ♃ | 16°28'37"  | -05°04'09"   | 00°05'06"  | 0.003  |
| 22/11/2013 00:00:00 | X  | 22°03'02" ♃ | -03°31'37" | -13°02'15"   | -00°00'28" | 95.678 |
| 22/11/2013 00:00:00 | Y  | 23°44'44" ♃ | 07°00'07"  | -12°03'42"   | -00°00'36" | 85.456 |
| 23/11/2013 00:00:00 | ♃  | 00°51'00" ♃ | -20°19'30" | -00°00'00"   | 01°00'37"  | 0.988  |
| 23/11/2013 00:00:00 | ♃  | 00°01'44" ♃ | 15°03'50"  | -05°11'28"   | 11°51'13"  | 0.003  |
| 23/11/2013 00:00:00 | ♀  | 12°20'39" ♍ | -13°33'02" | 02°05'12"    | 01°18'55"  | 1.116  |
| 23/11/2013 00:00:00 | ♀  | 15°41'14" ♍ | -25°57'35" | 0°-03'28'14" | 00°47'05"  | 0.504  |

Ephemerides year 2013

|                     |    |             |            |             |            |        |
|---------------------|----|-------------|------------|-------------|------------|--------|
| 23/11/2013 00:00:00 | ♂  | 22°06'34" ♉ | 04°45'03"  | 01°45'52"   | 00°32'43"  | 1.737  |
| 23/11/2013 00:00:00 | ♃  | 20°05'50" ♉ | 21°57'41"  | 00°01'49"   | -00°03'07" | 4.479  |
| 23/11/2013 00:00:00 | ♃  | 16°12'16" ♉ | -14°39'14" | 02°07'02"   | 00°07'02"  | 10.823 |
| 23/11/2013 00:00:00 | ♃  | 08°50'43" ♉ | 02°51'11"  | -00°42'36"  | -00°01'12" | 19.414 |
| 23/11/2013 00:00:00 | ♃  | 02°36'12" ♉ | -11°10'44" | -00°40'46"  | 00°00'19"  | 29.934 |
| 23/11/2013 00:00:00 | ♃  | 09°58'13" ♉ | -20°14'40" | 02°49'25"   | 00°01'43"  | 33.308 |
| 23/11/2013 00:00:00 | ♁  | 07°29'47" ♉ | -14°00'36" | 00°00'00"   | -00°03'04" | 0.003  |
| 23/11/2013 00:00:00 | ♃  | 09°07'34" ♉ | -03°22'15" | 05°08'55"   | 00°00'12"  | 17.513 |
| 23/11/2013 00:00:00 | ♁  | 18°36'21" ♉ | 17°17'09"  | -04°54'08"  | 00°06'43"  | 0.003  |
| 23/11/2013 00:00:00 | T♁ | 07°29'47" ♉ | -14°00'36" | 00°00'00"   | -00°03'04" | 0.003  |
| 23/11/2013 00:00:00 | T♁ | 23°06'40" ♉ | 16°27'14"  | -05°04'19"  | 00°08'41"  | 0.003  |
| 23/11/2013 00:00:00 | X  | 22°02'34" ♉ | -03°31'40" | -13°02'08"  | -00°00'27" | 95.688 |
| 23/11/2013 00:00:00 | Y  | 23°44'07" ♉ | 07°00'00"  | -12°03'41"  | -00°00'36" | 85.457 |
| 24/11/2013 00:00:00 | ♁  | 01°51'38" ♉ | -20°31'50" | -00°00'00"  | 01°00'39"  | 0.987  |
| 24/11/2013 00:00:00 | ♁  | 11°54'16" ♉ | 12°11'55"  | -05°13'10"  | 11°54'30"  | 0.003  |
| 24/11/2013 00:00:00 | ♃  | 13°40'46" ♉ | -14°01'49" | 02°00'09"   | 01°21'15"  | 1.138  |
| 24/11/2013 00:00:00 | ♀  | 16°27'52" ♉ | -25°49'00" | 0-03°25'20" | 00°46'10"  | 0.497  |
| 24/11/2013 00:00:00 | ♂  | 22°39'14" ♉ | 04°32'41"  | 01°46'28"   | 00°32'36"  | 1.728  |
| 24/11/2013 00:00:00 | ♃  | 20°02'37" ♉ | 21°58'17"  | 00°01'57"   | -00°03'18" | 4.467  |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 24/11/2013 00:00:00 | ♃ | 16°19'18" ♎ | -14°41'12" | 02°07'03"  | 00°07'01"  | 10.819 |
| 24/11/2013 00:00:00 | ♅ | 08°49'32" ♏ | 02°50'45"  | -00°42'34" | -00°01'09" | 19.428 |
| 24/11/2013 00:00:00 | ♆ | 02°36'32" ♏ | -11°10'36" | -00°40'45" | 00°00'21"  | 29.951 |
| 24/11/2013 00:00:00 | ♁ | 09°59'57" ♏ | -20°14'42" | 02°49'16"  | 00°01'44"  | 33.319 |
| 24/11/2013 00:00:00 | ♄ | 07°27'09" ♎ | -13°59'45" | 00°00'00"  | -00°02'08" | 0.002  |
| 24/11/2013 00:00:00 | ♁ | 09°07'48" ♏ | -03°22'29" | 05°08'34"  | 00°00'15"  | 17.531 |
| 24/11/2013 00:00:00 | ♁ | 18°43'04" ♏ | 17°16'00"  | -04°54'24" | 00°06'43"  | 0.003  |
| 24/11/2013 00:00:00 | ♄ | 07°27'09" ♎ | -13°59'45" | 00°00'00"  | -00°02'08" | 0.002  |
| 24/11/2013 00:00:00 | ♁ | 23°12'49" ♏ | 16°26'03"  | -05°04'31" | 00°01'16"  | 0.003  |
| 24/11/2013 00:00:00 | X | 22°02'07" ♏ | -03°31'44" | -13°02'01" | -00°00'27" | 95.699 |
| 24/11/2013 00:00:00 | Y | 23°43'31" ♏ | 06°59'53"  | -12°03'40" | -00°00'36" | 85.459 |
| 25/11/2013 00:00:00 | ♁ | 02°52'18" ♏ | -20°43'47" | -00°00'00" | 01°00'40"  | 0.987  |
| 25/11/2013 00:00:00 | ♃ | 23°52'13" ♏ | 08°48'59"  | -05°01'21" | 12°02'09"  | 0.003  |
| 25/11/2013 00:00:00 | ♁ | 15°03'03" ♎ | -14°31'10" | 01°54'42"  | 01°23'13"  | 1.159  |
| 25/11/2013 00:00:00 | ♁ | 17°13'35" ♏ | -25°40'02" | -03°22'11" | 00°45'14"  | 0.490  |
| 25/11/2013 00:00:00 | ♁ | 23°11'48" ♎ | 04°20'20"  | 01°47'03"  | 00°32'30"  | 1.719  |
| 25/11/2013 00:00:00 | ♁ | 19°59'12" ♏ | 21°58'55"  | 00°02'05"  | -00°03'30" | 4.456  |
| 25/11/2013 00:00:00 | ♃ | 16°26'19" ♎ | -14°43'10" | 02°07'05"  | 00°07'00"  | 10.814 |
| 25/11/2013 00:00:00 | ♅ | 08°48'23" ♏ | 02°50'20"  | -00°42'32" | -00°01'07" | 19.442 |



Ephemerides year 2013

|                     |   |           |   |            |            |            |        |
|---------------------|---|-----------|---|------------|------------|------------|--------|
| 25/11/2013 00:00:00 | ♁ | 02°36'55" | ♈ | -11°10'27" | -00°40'44" | 00°00'23"  | 29.969 |
| 25/11/2013 00:00:00 | ♁ | 10°01'42" | ♈ | -20°14'43" | 02°49'07"  | 00°01'45"  | 33.330 |
| 25/11/2013 00:00:00 | ♁ | 07°25'34" | ♎ | -13°59'14" | 00°00'00"  | -00°00'58" | 0.002  |
| 25/11/2013 00:00:00 | ♁ | 09°08'05" | ♈ | -03°22'42" | 05°08'13"  | 00°00'19"  | 17.549 |
| 25/11/2013 00:00:00 | ♁ | 18°49'47" | ♁ | 17°14'50"  | -04°54'40" | 00°06'42"  | 0.003  |
| 25/11/2013 00:00:00 | ♁ | 07°25'34" | ♎ | -13°59'14" | 00°00'00"  | -00°00'58" | 0.002  |
| 25/11/2013 00:00:00 | ♁ | 23°04'03" | ♁ | 16°27'36"  | -05°04'22" | -00°21'30" | 0.003  |
| 25/11/2013 00:00:00 | X | 22°01'39" | ♎ | -03°31'46" | -13°01'54" | -00°00'26" | 95.710 |
| 25/11/2013 00:00:00 | Y | 23°42'54" | ♁ | 06°59'45"  | -12°03'38" | -00°00'36" | 85.461 |
| 26/11/2013 00:00:00 | ♁ | 03°52'59" | ♈ | -20°55'22" | -00°00'00" | 01°00'42"  | 0.987  |
| 26/11/2013 00:00:00 | ♁ | 06°00'08" | ♎ | 05°01'38"  | -04°36'02" | 12°14'28"  | 0.003  |
| 26/11/2013 00:00:00 | ♁ | 16°27'08" | ♎ | -15°00'52" | 01°48'53"  | 01°24'53"  | 1.179  |
| 26/11/2013 00:00:00 | ♁ | 17°58'21" | ♈ | -25°30'41" | -03°18'45" | 00°44'15"  | 0.483  |
| 26/11/2013 00:00:00 | ♁ | 23°44'15" | ♎ | 04°08'02"  | 01°47'38"  | 00°32'23"  | 1.710  |
| 26/11/2013 00:00:00 | ♁ | 19°55'37" | ♁ | 21°59'35"  | 00°02'13"  | -00°03'41" | 4.445  |
| 26/11/2013 00:00:00 | ♁ | 16°33'19" | ♎ | -14°45'07" | 02°07'07"  | 00°06'59"  | 10.810 |
| 26/11/2013 00:00:00 | ♁ | 08°47'17" | ♎ | 02°49'56"  | -00°42'30" | -00°01'04" | 19.456 |
| 26/11/2013 00:00:00 | ♁ | 02°37'19" | ♈ | -11°10'17" | -00°40'43" | 00°00'25"  | 29.986 |
| 26/11/2013 00:00:00 | ♁ | 10°03'28" | ♈ | -20°14'44" | 02°48'59"  | 00°01'46"  | 33.341 |

Ephemerides year 2013

|                     |    |             |            |             |            |        |
|---------------------|----|-------------|------------|-------------|------------|--------|
| 26/11/2013 00:00:00 | ♏  | 07°25'12" ♎ | -13°59'06" | 00°00'00"   | 00°00'12"  | 0.002  |
| 26/11/2013 00:00:00 | ♋  | 09°08'26" ♋ | -03°22'54" | 05°07'51"   | 00°00'22"  | 17.567 |
| 26/11/2013 00:00:00 | ♌  | 18°56'30" ♌ | 17°13'40"  | -04°54'56"  | 00°06'42"  | 0.003  |
| 26/11/2013 00:00:00 | T♏ | 07°25'12" ♎ | -13°59'06" | 00°00'00"   | 00°00'12"  | 0.002  |
| 26/11/2013 00:00:00 | T♌ | 22°24'35" ♌ | 16°34'47"  | -05°03'29"  | -00°59'44" | 0.003  |
| 26/11/2013 00:00:00 | X  | 22°01'13" ♏ | -03°31'49" | -13°01'46"  | -00°00'26" | 95.721 |
| 26/11/2013 00:00:00 | Y  | 23°42'18" ♏ | 06°59'38"  | -12°03'37"  | -00°00'36" | 85.463 |
| 27/11/2013 00:00:00 | ♁  | 04°53'42" ♏ | -21°06'33" | -00°00'00"  | 01°00'43"  | 0.987  |
| 27/11/2013 00:00:00 | ♃  | 18°22'44" ♎ | 00°56'59"  | -03°57'32"  | 12°31'29"  | 0.003  |
| 27/11/2013 00:00:00 | ♌  | 17°52'44" ♎ | -15°30'43" | 01°42'45"   | 01°26'17"  | 1.198  |
| 27/11/2013 00:00:00 | ♀  | 18°42'06" ♏ | -25°20'58" | 0-03°15'03" | 00°43'14"  | 0.476  |
| 27/11/2013 00:00:00 | ♂  | 24°16'35" ♎ | 03°55'45"  | 01°48'14"   | 00°32'17"  | 1.701  |
| 27/11/2013 00:00:00 | ♉  | 19°51'50" ♌ | 22°00'16"  | 00°02'22"   | -00°03'52" | 4.434  |
| 27/11/2013 00:00:00 | ♈  | 16°40'18" ♎ | -14°47'03" | 02°07'09"   | 00°06'57"  | 10.804 |
| 27/11/2013 00:00:00 | ♍  | 08°46'14" ♏ | 02°49'33"  | -00°42'28"  | -00°01'01" | 19.470 |
| 27/11/2013 00:00:00 | ♎  | 02°37'45" ♋ | -11°10'07" | -00°40'42"  | 00°00'27"  | 30.003 |
| 27/11/2013 00:00:00 | ♐  | 10°05'15" ♏ | -20°14'45" | 02°48'50"   | 00°01'47"  | 33.352 |
| 27/11/2013 00:00:00 | ♏  | 07°25'55" ♎ | -13°59'20" | 00°00'00"   | 00°01'10"  | 0.002  |
| 27/11/2013 00:00:00 | ♋  | 09°08'50" ♋ | -03°23'05" | 05°07'30"   | 00°00'26"  | 17.585 |

Ephemerides year 2013

|                     |   |             |            |             |            |        |
|---------------------|---|-------------|------------|-------------|------------|--------|
| 27/11/2013 00:00:00 | ☾ | 19°03'13" ♉ | 17°12'30"  | -04°55'11"  | 00°06'42"  | 0.003  |
| 27/11/2013 00:00:00 | ♁ | 07°25'55" ♎ | -13°59'20" | 00°00'00"   | 00°01'10"  | 0.002  |
| 27/11/2013 00:00:00 | ♁ | 21°00'58" ♉ | 16°49'41"  | -05°01'22"  | -01°48'32" | 0.003  |
| 27/11/2013 00:00:00 | X | 22°00'47" ♏ | -03°31'51" | -13°01'38"  | -00°00'26" | 95.732 |
| 27/11/2013 00:00:00 | Y | 23°41'42" ♏ | 06°59'31"  | -12°03'35"  | -00°00'36" | 85.465 |
| 28/11/2013 00:00:00 | ☉ | 05°54'27" ♏ | -21°17'20" | -00°00'00"  | 01°00'45"  | 0.987  |
| 28/11/2013 00:00:00 | ☾ | 01°04'34" ♎ | -03°16'50" | -03°06'33"  | 12°52'51"  | 0.003  |
| 28/11/2013 00:00:00 | ♀ | 19°19'38" ♎ | -16°00'36" | 01°36'22"   | 01°27'27"  | 1.217  |
| 28/11/2013 00:00:00 | ♀ | 19°24'50" ♏ | -25°10'53" | 0-03°11'03" | 00°42'11"  | 0.468  |
| 28/11/2013 00:00:00 | ♂ | 24°48'49" ♎ | 03°43'31"  | 01°48'50"   | 00°32'10"  | 1.692  |
| 28/11/2013 00:00:00 | ♃ | 19°47'52" ♉ | 22°00'59"  | 00°02'30"   | -00°04'03" | 4.423  |
| 28/11/2013 00:00:00 | ♃ | 16°47'15" ♎ | -14°48'58" | 02°07'12"   | 00°06'56"  | 10.799 |
| 28/11/2013 00:00:00 | ♃ | 08°45'14" ♏ | 02°49'11"  | -00°42'26"  | -00°00'59" | 19.484 |
| 28/11/2013 00:00:00 | ♃ | 02°38'13" ♏ | -11°09'56" | -00°40'42"  | 00°00'29"  | 30.021 |
| 28/11/2013 00:00:00 | ♃ | 10°07'04" ♏ | -20°14'45" | 02°48'41"   | 00°01'48"  | 33.362 |
| 28/11/2013 00:00:00 | ♁ | 07°27'24" ♎ | -13°59'49" | 00°00'00"   | 00°01'41"  | 0.002  |
| 28/11/2013 00:00:00 | ♃ | 09°09'18" ♏ | -03°23'15" | 05°07'09"   | 00°00'29"  | 17.603 |
| 28/11/2013 00:00:00 | ☾ | 19°09'56" ♉ | 17°11'20"  | -04°55'27"  | 00°06'42"  | 0.003  |
| 28/11/2013 00:00:00 | ♁ | 07°27'24" ♎ | -13°59'49" | 00°00'00"   | 00°01'41"  | 0.002  |

Ephemerides year 2013

|                     |    |             |            |             |            |        |
|---------------------|----|-------------|------------|-------------|------------|--------|
| 28/11/2013 00:00:00 | T♄ | 18°47'32" ♉ | 17°12'18"  | -04°57'31"  | -02°37'06" | 0.003  |
| 28/11/2013 00:00:00 | X  | 22°00'21" ♏ | -03°31'53" | -13°01'31"  | -00°00'25" | 95.744 |
| 28/11/2013 00:00:00 | Y  | 23°41'05" ♏ | 06°59'25"  | -12°03'34"  | -00°00'36" | 85.468 |
| 29/11/2013 00:00:00 | ☉  | 06°55'13" ♈ | -21°27'43" | -00°00'00"  | 01°00'46"  | 0.986  |
| 29/11/2013 00:00:00 | ☾  | 14°09'35" ♎ | -07°29'43" | -02°04'29"  | 13°17'40"  | 0.003  |
| 29/11/2013 00:00:00 | ♀  | 20°47'35" ♍ | -16°30'21" | 01°29'46"   | 01°28'26"  | 1.234  |
| 29/11/2013 00:00:00 | ♀  | 20°06'29" ♎ | -25°00'29" | o-03°06'46" | 00°41'05"  | 0.461  |
| 29/11/2013 00:00:00 | ♂  | 25°20'56" ♏ | 03°31'19"  | 01°49'25"   | 00°32'03"  | 1.683  |
| 29/11/2013 00:00:00 | ♃  | 19°43'43" ♉ | 22°01'44"  | 00°02'39"   | -00°04'14" | 4.413  |
| 29/11/2013 00:00:00 | ♅  | 16°54'11" ♍ | -14°50'53" | 02°07'14"   | 00°06'55"  | 10.794 |
| 29/11/2013 00:00:00 | ♁  | 08°44'16" ♏ | 02°48'51"  | -00°42'24"  | -00°00'56" | 19.499 |
| 29/11/2013 00:00:00 | ♃  | 02°38'44" ♏ | -11°09'45" | -00°40'41"  | 00°00'31"  | 30.038 |
| 29/11/2013 00:00:00 | ♁  | 10°08'53" ♎ | -20°14'46" | 02°48'32"   | 00°01'49"  | 33.372 |
| 29/11/2013 00:00:00 | ♁  | 07°29'07" ♍ | -14°00'23" | 00°00'00"   | 00°01'37"  | 0.002  |
| 29/11/2013 00:00:00 | ♃  | 09°09'49" ♏ | -03°23'23" | 05°06'48"   | 00°00'33"  | 17.621 |
| 29/11/2013 00:00:00 | ♁  | 19°16'39" ♉ | 17°10'10"  | -04°55'42"  | 00°06'42"  | 0.003  |
| 29/11/2013 00:00:00 | T♁ | 07°29'07" ♍ | -14°00'23" | 00°00'00"   | 00°01'37"  | 0.002  |
| 29/11/2013 00:00:00 | T♄ | 15°51'51" ♉ | 17°39'47"  | -04°51'43"  | -03°10'27" | 0.003  |
| 29/11/2013 00:00:00 | X  | 21°59'55" ♏ | -03°31'55" | -13°01'23"  | -00°00'25" | 95.756 |

Ephemerides year 2013

|                     |    |             |            |             |            |        |
|---------------------|----|-------------|------------|-------------|------------|--------|
| 29/11/2013 00:00:00 | Y  | 23°40'29" ♄ | 06°59'18"  | -12°03'32"  | -00°00'35" | 85.471 |
| 30/11/2013 00:00:00 | ☉  | 07°56'01" ♈ | -21°37'41" | -00°00'00"  | 01°00'48"  | 0.986  |
| 30/11/2013 00:00:00 | ☾  | 27°40'34" ♋ | -11°28'46" | -00°53'37"  | 13°44'27"  | 0.003  |
| 30/11/2013 00:00:00 | ♀  | 22°16'27" ♍ | -16°59'51" | 01°22'59"   | 01°29'15"  | 1.251  |
| 30/11/2013 00:00:00 | ♀  | 20°47'00" ♁ | -24°49'45" | 0-03°02'11" | 00°39'56"  | 0.454  |
| 30/11/2013 00:00:00 | ♂  | 25°52'55" ♎ | 03°19'10"  | 01°50'01"   | 00°31'55"  | 1.673  |
| 30/11/2013 00:00:00 | ♃  | 19°39'23" ♉ | 22°02'30"  | 00°02'47"   | -00°04'25" | 4.402  |
| 30/11/2013 00:00:00 | ♅  | 17°01'05" ♌ | -14°52'46" | 02°07'17"   | 00°06'53"  | 10.788 |
| 30/11/2013 00:00:00 | ♁  | 08°43'21" ♉ | 02°48'31"  | -00°42'22"  | -00°00'53" | 19.514 |
| 30/11/2013 00:00:00 | ♃  | 02°39'16" ♈ | -11°09'32" | -00°40'40"  | 00°00'33"  | 30.055 |
| 30/11/2013 00:00:00 | ♁  | 10°10'43" ♁ | -20°14'46" | 02°48'24"   | 00°01'50"  | 33.382 |
| 30/11/2013 00:00:00 | ♌  | 07°30'25" ♌ | -14°00'48" | 00°00'00"   | 00°00'52"  | 0.002  |
| 30/11/2013 00:00:00 | ♃  | 09°10'24" ♈ | -03°23'29" | 05°06'27"   | 00°00'36"  | 17.639 |
| 30/11/2013 00:00:00 | ♁  | 19°23'22" ♁ | 17°08'59"  | -04°55'57"  | 00°06'43"  | 0.003  |
| 30/11/2013 00:00:00 | T♌ | 07°30'25" ♌ | -14°00'48" | 00°00'00"   | 00°00'52"  | 0.002  |
| 30/11/2013 00:00:00 | T♃ | 12°35'46" ♉ | 18°07'16"  | -04°44'16"  | -03°16'47" | 0.003  |
| 30/11/2013 00:00:00 | X  | 21°59'31" ♉ | -03°31'57" | -13°01'15"  | -00°00'24" | 95.768 |
| 30/11/2013 00:00:00 | Y  | 23°39'53" ♄ | 06°59'12"  | -12°03'30"  | -00°00'35" | 85.475 |
| 01/12/2013 00:00:00 | ☉  | 08°56'50" ♈ | -21°47'15" | -00°00'00"  | 01°00'49"  | 0.986  |

Ephemerides year 2013

|                     |   |           |   |            |            |            |        |
|---------------------|---|-----------|---|------------|------------|------------|--------|
| 01/12/2013 00:00:00 | ♃ | 11°38'26" | ♍ | -14°57'54" | 00°22'35"  | 14°11'00"  | 0.002  |
| 01/12/2013 00:00:00 | ♆ | 23°46'03" | ♍ | -17°28'59" | 01°16'04"  | 01°29'55"  | 1.267  |
| 01/12/2013 00:00:00 | ♀ | 21°26'22" | ♌ | -24°38'43" | 0°02'56"   | 00°38'45"  | 0.447  |
| 01/12/2013 00:00:00 | ♂ | 26°24'47" | ♍ | 03°07'04"  | 01°50'37"  | 00°31'48"  | 1.664  |
| 01/12/2013 00:00:00 | ♃ | 19°34'52" | ♌ | 22°03'17"  | 00°02'56"  | -00°04'35" | 4.392  |
| 01/12/2013 00:00:00 | ♄ | 17°07'58" | ♍ | -14°54'39" | 02°07'20"  | 00°06'51"  | 10.782 |
| 01/12/2013 00:00:00 | ♃ | 08°42'29" | ♌ | 02°48'12"  | -00°42'19" | -00°00'50" | 19.529 |
| 01/12/2013 00:00:00 | ♃ | 02°39'50" | ♌ | -11°09'19" | -00°40'39" | 00°00'35"  | 30.072 |
| 01/12/2013 00:00:00 | ♃ | 10°12'35" | ♌ | -20°14'46" | 02°48'15"  | 00°01'51"  | 33.391 |
| 01/12/2013 00:00:00 | ♁ | 07°30'41" | ♍ | -14°00'53" | 00°00'00"  | -00°00'25" | 0.002  |
| 01/12/2013 00:00:00 | ♃ | 09°11'02" | ♌ | -03°23'35" | 05°06'05"  | 00°00'40"  | 17.657 |
| 01/12/2013 00:00:00 | ♁ | 19°30'05" | ♌ | 17°07'49"  | -04°56'12" | 00°06'43"  | 0.003  |
| 01/12/2013 00:00:00 | ♁ | 07°30'41" | ♍ | -14°00'53" | 00°00'00"  | -00°00'25" | 0.002  |
| 01/12/2013 00:00:00 | ♁ | 09°27'20" | ♌ | 18°30'22"  | -04°36'11" | -02°56'28" | 0.003  |
| 01/12/2013 00:00:00 | X | 21°59'06" | ♌ | -03°31'58" | -13°01'07" | -00°00'24" | 95.780 |
| 01/12/2013 00:00:00 | Y | 23°39'18" | ♌ | 06°59'06"  | -12°03'27" | -00°00'35" | 85.478 |
| 02/12/2013 00:00:00 | ♁ | 09°57'41" | ♌ | -21°56'24" | -00°00'00" | 01°00'51"  | 0.986  |
| 02/12/2013 00:00:00 | ♃ | 26°01'35" | ♍ | -17°38'44" | 01°39'30"  | 14°34'34"  | 0.002  |
| 02/12/2013 00:00:00 | ♆ | 25°16'16" | ♍ | -17°57'40" | 01°09'02"  | 01°30'29"  | 1.282  |

Ephemerides year 2013

|                     |   |             |              |            |            |        |
|---------------------|---|-------------|--------------|------------|------------|--------|
| 02/12/2013 00:00:00 | ♀ | 22°04'30" ♍ | -24°27'24" ♁ | -02°52'05" | 00°37'30"  | 0.440  |
| 02/12/2013 00:00:00 | ♂ | 26°56'32" ♍ | 02°55'00"    | 01°51'14"  | 00°31'41"  | 1.655  |
| 02/12/2013 00:00:00 | ♃ | 19°30'11" ♁ | 22°04'06"    | 00°03'04"  | -00°04'46" | 4.382  |
| 02/12/2013 00:00:00 | ♃ | 17°14'49" ♍ | -14°56'31"   | 02°07'23"  | 00°06'50"  | 10.775 |
| 02/12/2013 00:00:00 | ♃ | 08°41'40" ♁ | 02°47'55"    | -00°42'17" | -00°00'47" | 19.544 |
| 02/12/2013 00:00:00 | ♃ | 02°40'27" ♁ | -11°09'05"   | -00°40'38" | 00°00'37"  | 30.089 |
| 02/12/2013 00:00:00 | ♃ | 10°14'27" ♍ | -20°14'46"   | 02°48'07"  | 00°01'52"  | 33.401 |
| 02/12/2013 00:00:00 | ♁ | 07°29'27" ♍ | -14°00'29"   | 00°00'00"  | -00°02'04" | 0.002  |
| 02/12/2013 00:00:00 | ♃ | 09°11'44" ♁ | -03°23'39"   | 05°05'44"  | 00°00'43"  | 17.675 |
| 02/12/2013 00:00:00 | ♃ | 19°36'48" ♁ | 17°06'38"    | -04°56'27" | 00°06'43"  | 0.003  |
| 02/12/2013 00:00:00 | ♁ | 07°29'27" ♍ | -14°00'29"   | 00°00'00"  | -00°02'04" | 0.002  |
| 02/12/2013 00:00:00 | ♃ | 06°47'10" ♁ | 18°47'22"    | -04°28'38" | -02°23'15" | 0.003  |
| 02/12/2013 00:00:00 | X | 21°58'43" ♁ | -03°31'59"   | -13°00'59" | -00°00'23" | 95.792 |
| 02/12/2013 00:00:00 | Y | 23°38'42" ♁ | 06°59'00"    | -12°03'25" | -00°00'35" | 85.482 |
| 03/12/2013 00:00:00 | ♁ | 10°58'32" ♁ | -22°05'07"   | 00°00'00"  | 01°00'52"  | 0.986  |
| 03/12/2013 00:00:00 | ♃ | 10°45'38" ♁ | -19°13'28"   | 02°51'31"  | 14°52'18"  | 0.002  |
| 03/12/2013 00:00:00 | ♃ | 26°47'00" ♍ | -18°25'48"   | 01°01'55"  | 01°30'57"  | 1.297  |
| 03/12/2013 00:00:00 | ♀ | 22°41'22" ♍ | -24°15'49" ♁ | -02°46'33" | 00°36'13"  | 0.434  |
| 03/12/2013 00:00:00 | ♂ | 27°28'09" ♍ | 02°42'59"    | 01°51'50"  | 00°31'33"  | 1.646  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 03/12/2013 00:00:00 | ♃  | 19°25'19" ♉ | 22°04'56"  | 00°03'13"  | -00°04'56" | 4.373  |
| 03/12/2013 00:00:00 | ♃  | 17°21'38" ♉ | -14°58'22" | 02°07'26"  | 00°06'48"  | 10.769 |
| 03/12/2013 00:00:00 | ♃  | 08°40'54" ♉ | 02°47'39"  | -00°42'15" | -00°00'44" | 19.559 |
| 03/12/2013 00:00:00 | ♃  | 02°41'06" ♉ | -11°08'50" | -00°40'38" | 00°00'39"  | 30.107 |
| 03/12/2013 00:00:00 | ♃  | 10°16'20" ♉ | -20°14'46" | 02°47'58"  | 00°01'53"  | 33.410 |
| 03/12/2013 00:00:00 | ♃  | 07°26'31" ♉ | -13°59'32" | 00°00'00"  | -00°03'44" | 0.002  |
| 03/12/2013 00:00:00 | ♃  | 09°12'30" ♉ | -03°23'41" | 05°05'23"  | 00°00'47"  | 17.693 |
| 03/12/2013 00:00:00 | ♃  | 19°43'31" ♉ | 17°05'27"  | -04°56'42" | 00°06'43"  | 0.003  |
| 03/12/2013 00:00:00 | T♃ | 07°26'31" ♉ | -13°59'32" | 00°00'00"  | -00°03'44" | 0.002  |
| 03/12/2013 00:00:00 | T♃ | 04°38'59" ♉ | 18°59'08"  | -04°22'13" | -01°55'21" | 0.003  |
| 03/12/2013 00:00:00 | X  | 21°58'19" ♉ | -03°32'00" | -13°00'50" | -00°00'22" | 95.805 |
| 03/12/2013 00:00:00 | Y  | 23°38'07" ♉ | 06°58'54"  | -12°03'22" | -00°00'34" | 85.487 |
| 04/12/2013 00:00:00 | ♃  | 11°59'25" ♉ | -22°13'25" | 00°00'00"  | 01°00'53"  | 0.986  |
| 04/12/2013 00:00:00 | ♃  | 25°43'27" ♉ | -19°29'14" | 03°52'51"  | 15°01'50"  | 0.002  |
| 04/12/2013 00:00:00 | ♃  | 28°18'09" ♉ | -18°53'19" | 00°54'45"  | 01°31'20"  | 1.310  |
| 04/12/2013 00:00:00 | ♃  | 23°16'55" ♉ | -24°04'00" | -02°40'42" | 00°34'51"  | 0.427  |
| 04/12/2013 00:00:00 | ♃  | 27°59'39" ♉ | 02°31'01"  | 01°52'26"  | 00°31'25"  | 1.636  |
| 04/12/2013 00:00:00 | ♃  | 19°20'18" ♉ | 22°05'47"  | 00°03'21"  | -00°05'06" | 4.364  |
| 04/12/2013 00:00:00 | ♃  | 17°28'26" ♉ | -15°00'12" | 02°07'29"  | 00°06'46"  | 10.762 |



Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 04/12/2013 00:00:00 | ♃ | 08°40'11" ♏ | 02°47'24"  | -00°42'13" | -00°00'41" | 19.574 |
| 04/12/2013 00:00:00 | ♃ | 02°41'46" ♏ | -11°08'35" | -00°40'37" | 00°00'41"  | 30.124 |
| 04/12/2013 00:00:00 | ♃ | 10°18'14" ♏ | -20°14'45" | 02°47'50"  | 00°01'54"  | 33.419 |
| 04/12/2013 00:00:00 | ♃ | 07°22'06" ♏ | -13°58'06" | 00°00'00"  | -00°05'01" | 0.002  |
| 04/12/2013 00:00:00 | ♃ | 09°13'19" ♏ | -03°23'43" | 05°05'02"  | 00°00'50"  | 17.712 |
| 04/12/2013 00:00:00 | ♃ | 19°50'14" ♏ | 17°04'16"  | -04°56'57" | 00°06'43"  | 0.003  |
| 04/12/2013 00:00:00 | ♃ | 07°22'06" ♏ | -13°58'06" | 00°00'00"  | -00°05'01" | 0.002  |
| 04/12/2013 00:00:00 | ♃ | 02°50'21" ♏ | 19°07'43"  | -04°16'37" | -01°45'24" | 0.003  |
| 04/12/2013 00:00:00 | X | 21°57'57" ♏ | -03°32'00" | -13°00'42" | -00°00'22" | 95.818 |
| 04/12/2013 00:00:00 | Y | 23°37'32" ♏ | 06°58'48"  | -12°03'20" | -00°00'34" | 85.491 |
| 05/12/2013 00:00:00 | ♃ | 13°00'20" ♏ | -22°21'18" | 00°00'00"  | 01°00'54"  | 0.986  |
| 05/12/2013 00:00:00 | ♃ | 10°46'08" ♏ | -18°22'26" | 04°38'21"  | 15°01'55"  | 0.002  |
| 05/12/2013 00:00:00 | ♃ | 29°49'40" ♏ | -19°20'10" | 00°47'32"  | 01°31'39"  | 1.323  |
| 05/12/2013 00:00:00 | ♃ | 23°51'05" ♏ | -23°51'57" | -02°34'30" | 00°33'27"  | 0.420  |
| 05/12/2013 00:00:00 | ♃ | 28°31'00" ♏ | 02°19'07"  | 01°53'03"  | 00°31'17"  | 1.627  |
| 05/12/2013 00:00:00 | ♃ | 19°15'06" ♏ | 22°06'40"  | 00°03'30"  | -00°05'16" | 4.354  |
| 05/12/2013 00:00:00 | ♃ | 17°35'11" ♏ | -15°02'02" | 02°07'33"  | 00°06'44"  | 10.755 |
| 05/12/2013 00:00:00 | ♃ | 08°39'31" ♏ | 02°47'10"  | -00°42'10" | -00°00'38" | 19.590 |
| 05/12/2013 00:00:00 | ♃ | 02°42'29" ♏ | -11°08'19" | -00°40'36" | 00°00'43"  | 30.141 |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 05/12/2013 00:00:00 | ♁ | 10°20'09" ♉ | -20°14'45" | 02°47'42"  | 00°01'55"  | 33.427 |
| 05/12/2013 00:00:00 | ♁ | 07°16'42" ♉ | -13°56'20" | 00°00'00"  | -00°05'38" | 0.002  |
| 05/12/2013 00:00:00 | ♁ | 09°14'11" ♉ | -03°23'42" | 05°04'41"  | 00°00'54"  | 17.730 |
| 05/12/2013 00:00:00 | ♁ | 19°56'58" ♉ | 17°03'05"  | -04°57'11" | 00°06'43"  | 0.003  |
| 05/12/2013 00:00:00 | ♁ | 07°16'42" ♉ | -13°56'20" | 00°00'00"  | -00°05'38" | 0.002  |
| 05/12/2013 00:00:00 | ♁ | 01°01'31" ♉ | 19°14'56"  | -04°10'56" | -01°54'55" | 0.003  |
| 05/12/2013 00:00:00 | X | 21°57'35" ♉ | -03°32'00" | -13°00'34" | -00°00'21" | 95.831 |
| 05/12/2013 00:00:00 | Y | 23°36'58" ♉ | 06°58'43"  | -12°03'17" | -00°00'34" | 85.496 |
| 06/12/2013 00:00:00 | ♁ | 14°01'14" ♉ | -22°28'44" | 00°00'00"  | 01°00'55"  | 0.985  |
| 06/12/2013 00:00:00 | ♁ | 25°44'16" ♉ | -16°00'07" | 05°04'33"  | 14°52'55"  | 0.002  |
| 06/12/2013 00:00:00 | ♁ | 01°21'27" ♉ | -19°46'15" | 00°40'18"  | 01°31'55"  | 1.335  |
| 06/12/2013 00:00:00 | ♁ | 24°23'48" ♉ | -23°39'42" | 02°27'57"  | 00°31'58"  | 0.413  |
| 06/12/2013 00:00:00 | ♁ | 29°02'14" ♉ | 02°07'15"  | 01°53'40"  | 00°31'09"  | 1.618  |
| 06/12/2013 00:00:00 | ♁ | 19°09'44" ♉ | 22°07'34"  | 00°03'38"  | -00°05'26" | 4.346  |
| 06/12/2013 00:00:00 | ♁ | 17°41'55" ♉ | -15°03'50" | 02°07'37"  | 00°06'42"  | 10.748 |
| 06/12/2013 00:00:00 | ♁ | 08°38'53" ♉ | 02°46'58"  | -00°42'08" | -00°00'35" | 19.606 |
| 06/12/2013 00:00:00 | ♁ | 02°43'14" ♉ | -11°08'02" | -00°40'35" | 00°00'45"  | 30.158 |
| 06/12/2013 00:00:00 | ♁ | 10°22'05" ♉ | -20°14'44" | 02°47'34"  | 00°01'56"  | 33.435 |
| 06/12/2013 00:00:00 | ♁ | 07°11'06" ♉ | -13°54'31" | 00°00'00"  | -00°05'23" | 0.002  |

Ephemerides year 2013

|                     |    |              |            |             |            |        |
|---------------------|----|--------------|------------|-------------|------------|--------|
| 06/12/2013 00:00:00 | ♄  | 09°15'07" ♈  | -03°23'41" | 05°04'20"   | 00°00'57"  | 17.748 |
| 06/12/2013 00:00:00 | ♁  | 20°03'41" ♉  | 17°01'53"  | -04°57'25"  | 00°06'43"  | 0.003  |
| 06/12/2013 00:00:00 | ♁♂ | 07°11'06" ♎♂ | -13°54'31" | 00°00'00"   | -00°05'23" | 0.002  |
| 06/12/2013 00:00:00 | ♁♄ | 28°57'40" ♉♄ | 19°21'31"  | -04°04'21"  | -02°12'34" | 0.003  |
| 06/12/2013 00:00:00 | X  | 21°57'13" ♏  | -03°32'00" | -13°00'25"  | -00°00'21" | 95.844 |
| 06/12/2013 00:00:00 | Y  | 23°36'23" ♏  | 06°58'38"  | -12°03'14"  | -00°00'34" | 85.501 |
| 07/12/2013 00:00:00 | ☉  | 15°02'10" ♏  | -22°35'44" | 00°00'00"   | 01°00'56"  | 0.985  |
| 07/12/2013 00:00:00 | ☾  | 10°29'32" ♏  | -12°37'29" | 05°10'08"   | 14°36'36"  | 0.002  |
| 07/12/2013 00:00:00 | ♁  | 02°53'30" ♏  | -20°11'33" | 00°33'04"   | 01°32'08"  | 1.347  |
| 07/12/2013 00:00:00 | ♁  | 24°55'02" ♏  | -23°27'16" | ♁-02°21'02" | 00°30'26"  | 0.407  |
| 07/12/2013 00:00:00 | ♁  | 29°33'19" ♏  | 01°55'27"  | 01°54'16"   | 00°31'00"  | 1.608  |
| 07/12/2013 00:00:00 | ♁  | 19°04'13" ♏  | 22°08'29"  | 00°03'47"   | -00°05'35" | 4.337  |
| 07/12/2013 00:00:00 | ♁  | 17°48'37" ♏  | -15°05'37" | 02°07'41"   | 00°06'40"  | 10.740 |
| 07/12/2013 00:00:00 | ♁  | 08°38'19" ♏  | 02°46'46"  | -00°42'06"  | -00°00'32" | 19.621 |
| 07/12/2013 00:00:00 | ♁  | 02°44'01" ♏  | -11°07'45" | -00°40'35"  | 00°00'47"  | 30.175 |
| 07/12/2013 00:00:00 | ♁  | 10°24'02" ♏  | -20°14'43" | 02°47'26"   | 00°01'56"  | 33.443 |
| 07/12/2013 00:00:00 | ♁  | 07°06'10" ♏  | -13°52'54" | 00°00'00"   | -00°04'21" | 0.002  |
| 07/12/2013 00:00:00 | ♄  | 09°16'07" ♈  | -03°23'38" | 05°04'00"   | 00°01'01"  | 17.766 |
| 07/12/2013 00:00:00 | ♁  | 20°10'24" ♉  | 17°00'42"  | -04°57'40"  | 00°06'43"  | 0.003  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 07/12/2013 00:00:00 | T♄ | 07°06'10" ♍ | -13°52'54" | 00°00'00"  | -00°04'21" | 0.002  |
| 07/12/2013 00:00:00 | T♄ | 26°40'41" ♀ | 19°26'54"  | -03°56'46" | -02°17'18" | 0.003  |
| 07/12/2013 00:00:00 | X  | 21°56'52" ♀ | -03°32'00" | -13°00'17" | -00°00'20" | 95.857 |
| 07/12/2013 00:00:00 | Y  | 23°35'49" ♄ | 06°58'33"  | -12°03'11" | -00°00'34" | 85.506 |
| 08/12/2013 00:00:00 | ♁  | 16°03'07" ♄ | -22°42'17" | 00°00'00"  | 01°00'56"  | 0.985  |
| 08/12/2013 00:00:00 | ♃  | 24°55'54" ♃ | -08°33'29" | 04°55'47"  | 14°15'35"  | 0.002  |
| 08/12/2013 00:00:00 | ♁  | 04°25'44" ♄ | -20°36'00" | 00°25'51"  | 01°32'19"  | 1.357  |
| 08/12/2013 00:00:00 | ♂  | 25°24'41" ♄ | -23°14'40" | -02°13'46" | 00°28'50"  | 0.400  |
| 08/12/2013 00:00:00 | ♂  | 00°04'15" ♃ | 01°43'43"  | 01°54'53"  | 00°30'52"  | 1.599  |
| 08/12/2013 00:00:00 | ♃  | 18°58'33" ♃ | 22°09'26"  | 00°03'56"  | -00°05'45" | 4.329  |
| 08/12/2013 00:00:00 | ♃  | 17°55'16" ♍ | -15°07'24" | 02°07'45"  | 00°06'38"  | 10.732 |
| 08/12/2013 00:00:00 | ♃  | 08°37'48" ♀ | 02°46'36"  | -00°42'04" | -00°00'29" | 19.637 |
| 08/12/2013 00:00:00 | ♃  | 02°44'49" ♃ | -11°07'26" | -00°40'34" | 00°00'49"  | 30.191 |
| 08/12/2013 00:00:00 | ♃  | 10°25'59" ♄ | -20°14'42" | 02°47'18"  | 00°01'57"  | 33.451 |
| 08/12/2013 00:00:00 | ♁  | 07°02'35" ♍ | -13°51'44" | 00°00'00"  | -00°02'45" | 0.002  |
| 08/12/2013 00:00:00 | ♃  | 09°17'09" ♃ | -03°23'34" | 05°03'39"  | 00°01'04"  | 17.783 |
| 08/12/2013 00:00:00 | ♁  | 20°17'07" ♃ | 16°59'30"  | -04°57'54" | 00°06'43"  | 0.003  |
| 08/12/2013 00:00:00 | T♄ | 07°02'35" ♍ | -13°51'44" | 00°00'00"  | -00°02'45" | 0.002  |
| 08/12/2013 00:00:00 | T♄ | 24°34'05" ♀ | 19°30'08"  | -03°49'28" | -01°49'31" | 0.003  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 08/12/2013 00:00:00 | X  | 21°56'31" ♀ | -03°31'59" | -13°00'08" | -00°00'20" | 95.871 |
| 08/12/2013 00:00:00 | Y  | 23°35'15" ♂ | 06°58'28"  | -12°03'08" | -00°00'33" | 85.512 |
| 09/12/2013 00:00:00 | ☉  | 17°04'03" ♀ | -22°48'24" | 00°00'00"  | 01°00'57"  | 0.985  |
| 09/12/2013 00:00:00 | ☾  | 09°00'04" ♀ | -04°06'53" | 04°23'49"  | 13°52'38"  | 0.002  |
| 09/12/2013 00:00:00 | ♁  | 05°58'08" ♀ | -20°59'33" | 00°18'41"  | 01°32'29"  | 1.367  |
| 09/12/2013 00:00:00 | ♂  | 25°52'42" ♀ | -23°01'55" | -02°06'08" | 00°27'11"  | 0.394  |
| 09/12/2013 00:00:00 | ♂  | 00°35'03" ♀ | 01°32'02"  | 01°55'30"  | 00°30'43"  | 1.589  |
| 09/12/2013 00:00:00 | ♃  | 18°52'43" ♀ | 22°10'23"  | 00°04'04"  | -00°05'54" | 4.321  |
| 09/12/2013 00:00:00 | ♄  | 18°01'53" ♀ | -15°09'09" | 02°07'49"  | 00°06'35"  | 10.724 |
| 09/12/2013 00:00:00 | ♅  | 08°37'19" ♀ | 02°46'27"  | -00°42'01" | -00°00'26" | 19.653 |
| 09/12/2013 00:00:00 | ♆  | 02°45'40" ♀ | -11°07'07" | -00°40'33" | 00°00'51"  | 30.208 |
| 09/12/2013 00:00:00 | ♇  | 10°27'57" ♀ | -20°14'41" | 02°47'10"  | 00°01'58"  | 33.459 |
| 09/12/2013 00:00:00 | ♈  | 07°00'42" ♀ | -13°51'07" | 00°00'00"  | -00°01'00" | 0.002  |
| 09/12/2013 00:00:00 | ♉  | 09°18'15" ♀ | -03°23'29" | 05°03'18"  | 00°01'07"  | 17.801 |
| 09/12/2013 00:00:00 | ♊  | 20°23'50" ♀ | 16°58'19"  | -04°58'08" | 00°06'43"  | 0.003  |
| 09/12/2013 00:00:00 | T♋ | 07°00'42" ♀ | -13°51'07" | 00°00'00"  | -00°01'00" | 0.002  |
| 09/12/2013 00:00:00 | T♌ | 23°14'03" ♀ | 19°31'19"  | -03°44'42" | -00°45'10" | 0.003  |
| 09/12/2013 00:00:00 | X  | 21°56'11" ♀ | -03°31'58" | -12°59'59" | -00°00'19" | 95.885 |
| 09/12/2013 00:00:00 | Y  | 23°34'42" ♂ | 06°58'24"  | -12°03'04" | -00°00'33" | 85.518 |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 10/12/2013 00:00:00 | ♁ | 18°05'01" ♄ | -22°54'03" | 00°00'00"  | 01°00'57"  | 0.985  |
| 10/12/2013 00:00:00 | ♃ | 22°41'18" ♃ | 00°25'44"  | 03°37'27"  | 13°30'03"  | 0.003  |
| 10/12/2013 00:00:00 | ♁ | 07°30'41" ♄ | -21°22'10" | 00°11'33"  | 01°32'37"  | 1.377  |
| 10/12/2013 00:00:00 | ♁ | 26°19'01" ♄ | -22°49'03" | -01°58'07" | 00°25'27"  | 0.387  |
| 10/12/2013 00:00:00 | ♂ | 01°05'43" ♄ | 01°20'24"  | 01°56'07"  | 00°30'35"  | 1.580  |
| 10/12/2013 00:00:00 | ♃ | 18°46'45" ♃ | 22°11'21"  | 00°04'13"  | -00°06'02" | 4.313  |
| 10/12/2013 00:00:00 | ♃ | 18°08'28" ♃ | -15°10'54" | 02°07'53"  | 00°06'33"  | 10.716 |
| 10/12/2013 00:00:00 | ♃ | 08°36'54" ♃ | 02°46'19"  | -00°41'59" | -00°00'23" | 19.669 |
| 10/12/2013 00:00:00 | ♁ | 02°46'32" ♃ | -11°06'48" | -00°40'32" | 00°00'53"  | 30.225 |
| 10/12/2013 00:00:00 | ♁ | 10°29'55" ♄ | -20°14'40" | 02°47'02"  | 00°01'58"  | 33.466 |
| 10/12/2013 00:00:00 | ♁ | 07°00'29" ♃ | -13°51'03" | 00°00'00"  | 00°00'30"  | 0.002  |
| 10/12/2013 00:00:00 | ♁ | 09°19'25" ♃ | -03°23'22" | 05°02'58"  | 00°01'11"  | 17.819 |
| 10/12/2013 00:00:00 | ♁ | 20°30'33" ♃ | 16°57'07"  | -04°58'21" | 00°06'43"  | 0.003  |
| 10/12/2013 00:00:00 | ♁ | 07°00'29" ♃ | -13°51'03" | 00°00'00"  | 00°00'30"  | 0.002  |
| 10/12/2013 00:00:00 | ♁ | 23°11'23" ♃ | 19°31'19"  | -03°44'33" | 00°41'54"  | 0.003  |
| 10/12/2013 00:00:00 | X | 21°55'52" ♃ | -03°31'57" | -12°59'50" | -00°00'19" | 95.899 |
| 10/12/2013 00:00:00 | Y | 23°34'08" ♃ | 06°58'20"  | -12°03'01" | -00°00'33" | 85.524 |
| 11/12/2013 00:00:00 | ♁ | 19°05'59" ♄ | -22°59'16" | 00°00'00"  | 01°00'58"  | 0.985  |
| 11/12/2013 00:00:00 | ♃ | 06°00'52" ♃ | 04°50'33"  | 02°40'23"  | 13°09'27"  | 0.003  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 11/12/2013 00:00:00 | ♀  | 09°03'22" ♄ | -21°43'49" | 00°04'28"  | 01°32'44"  | 1.386  |
| 11/12/2013 00:00:00 | ♀  | 26°43'35" ♄ | -22°36'04" | -01°49'42" | 00°23'39"  | 0.381  |
| 11/12/2013 00:00:00 | ♂  | 01°36'14" ♃ | 01°08'51"  | 01°56'44"  | 00°30'26"  | 1.570  |
| 11/12/2013 00:00:00 | ♃  | 18°40'37" ♃ | 22°12'20"  | 00°04'22"  | -00°06'11" | 4.305  |
| 11/12/2013 00:00:00 | ♃  | 18°15'00" ♃ | -15°12'37" | 02°07'58"  | 00°06'31"  | 10.708 |
| 11/12/2013 00:00:00 | ♃  | 08°36'31" ♃ | 02°46'13"  | -00°41'57" | -00°00'20" | 19.686 |
| 11/12/2013 00:00:00 | ♃  | 02°47'27" ♃ | -11°06'28" | -00°40'32" | 00°00'55"  | 30.242 |
| 11/12/2013 00:00:00 | ♃  | 10°31'54" ♄ | -20°14'38" | 02°46'55"  | 00°01'59"  | 33.473 |
| 11/12/2013 00:00:00 | ♃  | 07°01'31" ♃ | -13°51'23" | 00°00'00"  | 00°01'24"  | 0.002  |
| 11/12/2013 00:00:00 | ♃  | 09°20'38" ♃ | -03°23'14" | 05°02'37"  | 00°01'14"  | 17.837 |
| 11/12/2013 00:00:00 | ♃  | 20°37'16" ♃ | 16°55'55"  | -04°58'35" | 00°06'43"  | 0.003  |
| 11/12/2013 00:00:00 | T♃ | 07°01'31" ♃ | -13°51'23" | 00°00'00"  | 00°01'24"  | 0.002  |
| 11/12/2013 00:00:00 | T♃ | 24°38'37" ♃ | 19°30'00"  | -03°49'47" | 02°11'24"  | 0.003  |
| 11/12/2013 00:00:00 | X  | 21°55'33" ♃ | -03°31'56" | -12°59'41" | -00°00'18" | 95.913 |
| 11/12/2013 00:00:00 | Y  | 23°33'35" ♃ | 06°58'15"  | -12°02'57" | -00°00'32" | 85.531 |
| 12/12/2013 00:00:00 | ♃  | 20°06'58" ♄ | -23°04'01" | -00°00'00" | 01°00'59"  | 0.985  |
| 12/12/2013 00:00:00 | ♃  | 19°01'10" ♃ | 08°55'55"  | 01°36'18"  | 12°51'38"  | 0.003  |
| 12/12/2013 00:00:00 | ♀  | 10°36'11" ♄ | -22°04'27" | -00°02'31" | 01°32'51"  | 1.394  |
| 12/12/2013 00:00:00 | ♀  | 27°06'19" ♄ | -22°23'01" | -01°40'54" | 00°21'47"  | 0.375  |

Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 12/12/2013 00:00:00 | ♂ | 02°06'36" ♄ | 00°57'21"  | 01°57'22"  | 00°30'17"  | 1.561  |
| 12/12/2013 00:00:00 | ♃ | 18°34'22" ♃ | 22°13'20"  | 00°04'30"  | -00°06'19" | 4.298  |
| 12/12/2013 00:00:00 | ♃ | 18°21'30" ♃ | -15°14'19" | 02°08'03"  | 00°06'28"  | 10.699 |
| 12/12/2013 00:00:00 | ♃ | 08°36'12" ♃ | 02°46'07"  | -00°41'54" | -00°00'17" | 19.702 |
| 12/12/2013 00:00:00 | ♃ | 02°48'23" ♃ | -11°06'07" | -00°40'31" | 00°00'57"  | 30.258 |
| 12/12/2013 00:00:00 | ♃ | 10°33'54" ♃ | -20°14'36" | 02°46'47"  | 00°02'00"  | 33.480 |
| 12/12/2013 00:00:00 | ♃ | 07°03'01" ♃ | -13°51'52" | 00°00'00"  | 00°01'27"  | 0.002  |
| 12/12/2013 00:00:00 | ♃ | 09°21'54" ♃ | -03°23'05" | 05°02'17"  | 00°01'17"  | 17.855 |
| 12/12/2013 00:00:00 | ♃ | 20°43'59" ♃ | 16°54'42"  | -04°58'48" | 00°06'43"  | 0.003  |
| 12/12/2013 00:00:00 | ♃ | 07°03'01" ♃ | -13°51'52" | 00°00'00"  | 00°01'27"  | 0.002  |
| 12/12/2013 00:00:00 | ♃ | 27°29'32" ♃ | 19°25'09"  | -03°59'34" | 03°27'08"  | 0.003  |
| 12/12/2013 00:00:00 | X | 21°55'14" ♃ | -03°31'54" | -12°59'32" | -00°00'18" | 95.927 |
| 12/12/2013 00:00:00 | Y | 23°33'02" ♃ | 06°58'11"  | -12°02'53" | -00°00'32" | 85.537 |
| 13/12/2013 00:00:00 | ♃ | 21°07'57" ♃ | -23°08'19" | -00°00'00" | 01°00'59"  | 0.984  |
| 13/12/2013 00:00:00 | ♃ | 01°45'10" ♃ | 12°31'53"  | 00°28'47"  | 12°36'51"  | 0.003  |
| 13/12/2013 00:00:00 | ♃ | 12°09'06" ♃ | -22°24'03" | -00°09'25" | 01°32'58"  | 1.401  |
| 13/12/2013 00:00:00 | ♃ | 27°27'09" ♃ | -22°09'53" | -01°31'42" | 00°19'51"  | 0.369  |
| 13/12/2013 00:00:00 | ♂ | 02°36'49" ♄ | 00°45'55"  | 01°57'59"  | 00°30'08"  | 1.551  |
| 13/12/2013 00:00:00 | ♃ | 18°27'58" ♃ | 22°14'21"  | 00°04'39"  | -00°06'27" | 4.291  |



Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 13/12/2013 00:00:00 | ♃ | 18°27'58" ♎ | -15°16'00" | 02°08'07"  | 00°06'26"  | 10.690 |
| 13/12/2013 00:00:00 | ♃ | 08°35'56" ♏ | 02°46'03"  | -00°41'52" | -00°00'14" | 19.718 |
| 13/12/2013 00:00:00 | ♃ | 02°49'22" ♏ | -11°05'45" | -00°40'30" | 00°00'59"  | 30.275 |
| 13/12/2013 00:00:00 | ♃ | 10°35'55" ♏ | -20°14'34" | 02°46'39"  | 00°02'00"  | 33.486 |
| 13/12/2013 00:00:00 | ♃ | 07°04'07" ♎ | -13°52'14" | 00°00'00"  | 00°00'36"  | 0.002  |
| 13/12/2013 00:00:00 | ♃ | 09°23'13" ♏ | -03°22'54" | 05°01'56"  | 00°01'21"  | 17.873 |
| 13/12/2013 00:00:00 | ♃ | 20°50'43" ♏ | 16°53'30"  | -04°59'02" | 00°06'43"  | 0.003  |
| 13/12/2013 00:00:00 | ♃ | 07°04'07" ♎ | -13°52'14" | 00°00'00"  | 00°00'36"  | 0.002  |
| 13/12/2013 00:00:00 | ♃ | 01°25'00" ♏ | 19°13'37"  | -04°12'02" | 04°19'18"  | 0.003  |
| 13/12/2013 00:00:00 | X | 21°54'56" ♏ | -03°31'52" | -12°59'23" | -00°00'17" | 95.941 |
| 13/12/2013 00:00:00 | Y | 23°32'30" ♏ | 06°58'08"  | -12°02'49" | -00°00'32" | 85.545 |
| 14/12/2013 00:00:00 | ♃ | 22°08'57" ♏ | -23°12'09" | -00°00'00" | 01°01'00"  | 0.984  |
| 14/12/2013 00:00:00 | ♃ | 14°15'50" ♏ | 15°29'52"  | -00°38'50" | 12°24'54"  | 0.003  |
| 14/12/2013 00:00:00 | ♃ | 13°42'08" ♏ | -22°42'35" | -00°16'15" | 01°33'05"  | 1.408  |
| 14/12/2013 00:00:00 | ♃ | 27°46'02" ♏ | -21°56'43" | -01°22'05" | 00°17'52"  | 0.362  |
| 14/12/2013 00:00:00 | ♃ | 03°06'53" ♏ | 00°34'34"  | 01°58'37"  | 00°29'59"  | 1.542  |
| 14/12/2013 00:00:00 | ♃ | 18°21'27" ♏ | 22°15'23"  | 00°04'48"  | -00°06'35" | 4.284  |
| 14/12/2013 00:00:00 | ♃ | 18°34'23" ♎ | -15°17'41" | 02°08'13"  | 00°06'23"  | 10.681 |
| 14/12/2013 00:00:00 | ♃ | 08°35'43" ♏ | 02°46'00"  | -00°41'50" | -00°00'11" | 19.735 |

Ephemerides year 2013

|                     |    |           |   |            |            |            |        |
|---------------------|----|-----------|---|------------|------------|------------|--------|
| 14/12/2013 00:00:00 | ♁  | 02°50'22" | ♈ | -11°05'22" | -00°40'30" | 00°01'01"  | 30.291 |
| 14/12/2013 00:00:00 | ♁  | 10°37'56" | ♈ | -20°14'32" | 02°46'32"  | 00°02'01"  | 33.492 |
| 14/12/2013 00:00:00 | ♁  | 07°03'58" | ♎ | -13°52'11" | 00°00'00"  | -00°01'01" | 0.003  |
| 14/12/2013 00:00:00 | ♁  | 09°24'36" | ♈ | -03°22'42" | 05°01'36"  | 00°01'24"  | 17.890 |
| 14/12/2013 00:00:00 | ♁  | 20°57'26" | ♏ | 16°52'17"  | -04°59'15" | 00°06'43"  | 0.003  |
| 14/12/2013 00:00:00 | T♁ | 07°03'58" | ♎ | -13°52'11" | 00°00'00"  | -00°01'01" | 0.003  |
| 14/12/2013 00:00:00 | T♁ | 05°58'35" | ♏ | 18°53'16"  | -04°25'00" | 04°42'52"  | 0.003  |
| 14/12/2013 00:00:00 | X  | 21°54'39" | ♏ | -03°31'50" | -12°59'14" | -00°00'16" | 95.956 |
| 14/12/2013 00:00:00 | Y  | 23°31'58" | ♏ | 06°58'04"  | -12°02'45" | -00°00'31" | 85.552 |
| 15/12/2013 00:00:00 | ♁  | 23°09'58" | ♈ | -23°15'32" | -00°00'00" | 01°01'00"  | 0.984  |
| 15/12/2013 00:00:00 | ♁  | 26°35'47" | ♏ | 17°42'43"  | -01°43'32" | 12°15'21"  | 0.003  |
| 15/12/2013 00:00:00 | ♁  | 15°15'16" | ♈ | -23°00'00" | -00°22'57" | 01°33'11"  | 1.414  |
| 15/12/2013 00:00:00 | ♁  | 28°02'52" | ♈ | -21°43'31" | -01°12'04" | 00°15'48"  | 0.357  |
| 15/12/2013 00:00:00 | ♁  | 03°36'48" | ♏ | 00°23'16"  | 01°59'14"  | 00°29'50"  | 1.532  |
| 15/12/2013 00:00:00 | ♁  | 18°14'47" | ♏ | 22°16'26"  | 00°04'57"  | -00°06'42" | 4.278  |
| 15/12/2013 00:00:00 | ♁  | 18°40'45" | ♎ | -15°19'20" | 02°08'18"  | 00°06'21"  | 10.672 |
| 15/12/2013 00:00:00 | ♁  | 08°35'33" | ♏ | 02°45'58"  | -00°41'47" | -00°00'08" | 19.751 |
| 15/12/2013 00:00:00 | ♁  | 02°51'24" | ♈ | -11°04'59" | -00°40'29" | 00°01'03"  | 30.307 |
| 15/12/2013 00:00:00 | ♁  | 10°39'58" | ♈ | -20°14'30" | 02°46'25"  | 00°02'01"  | 33.498 |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 15/12/2013 00:00:00 | ♏  | 07°01'53" ♍ | -13°51'30" | 00°00'00"  | -00°03'12" | 0.003  |
| 15/12/2013 00:00:00 | ♋  | 09°26'02" ♏ | -03°22'29" | 05°01'16"  | 00°01'27"  | 17.908 |
| 15/12/2013 00:00:00 | ♌  | 21°04'09" ♎ | 16°51'04"  | -04°59'28" | 00°06'43"  | 0.003  |
| 15/12/2013 00:00:00 | T♏ | 07°01'53" ♍ | -13°51'30" | 00°00'00"  | -00°03'12" | 0.003  |
| 15/12/2013 00:00:00 | T♌ | 10°40'55" ♎ | 18°24'37"  | -04°36'33" | 04°37'09"  | 0.003  |
| 15/12/2013 00:00:00 | X  | 21°54'23" ♏ | -03°31'47" | -12°59'05" | -00°00'16" | 95.971 |
| 15/12/2013 00:00:00 | Y  | 23°31'26" ♏ | 06°58'01"  | -12°02'41" | -00°00'31" | 85.559 |
| 16/12/2013 00:00:00 | ♏  | 24°10'59" ♏ | -23°18'27" | -00°00'00" | 01°01'01"  | 0.984  |
| 16/12/2013 00:00:00 | ♎  | 08°47'12" ♏ | 19°05'07"  | -02°42'33" | 12°07'45"  | 0.003  |
| 16/12/2013 00:00:00 | ♌  | 16°48'31" ♏ | -23°16'18" | -00°29'33" | 01°33'18"  | 1.420  |
| 16/12/2013 00:00:00 | ♌  | 28°17'37" ♏ | -21°30'19" | -01°01'38" | 00°13'41"  | 0.351  |
| 16/12/2013 00:00:00 | ♏  | 04°06'33" ♏ | 00°12'03"  | 01°59'52"  | 00°29'40"  | 1.522  |
| 16/12/2013 00:00:00 | ♏  | 18°08'01" ♎ | 22°17'29"  | 00°05'05"  | -00°06'49" | 4.271  |
| 16/12/2013 00:00:00 | ♏  | 18°47'05" ♎ | -15°20'58" | 02°08'23"  | 00°06'18"  | 10.662 |
| 16/12/2013 00:00:00 | ♏  | 08°35'26" ♏ | 02°45'58"  | -00°41'45" | -00°00'05" | 19.768 |
| 16/12/2013 00:00:00 | ♏  | 02°52'28" ♏ | -11°04'36" | -00°40'28" | 00°01'05"  | 30.323 |
| 16/12/2013 00:00:00 | ♏  | 10°42'00" ♏ | -20°14'28" | 02°46'17"  | 00°02'02"  | 33.504 |
| 16/12/2013 00:00:00 | ♏  | 06°57'28" ♎ | -13°50'03" | 00°00'00"  | -00°05'36" | 0.003  |
| 16/12/2013 00:00:00 | ♋  | 09°27'31" ♏ | -03°22'14" | 05°00'56"  | 00°01'30"  | 17.925 |


































Ephemerides year 2013

|                     |   |             |            |             |            |            |        |
|---------------------|---|-------------|------------|-------------|------------|------------|--------|
| 16/12/2013 00:00:00 | ☾ | 21°10'52" ♉ | 16°49'52"  | -04°59'41"  | 00°06'43"  | 0.003      |        |
| 16/12/2013 00:00:00 | ♁ | 06°57'28" ♏ | -13°50'03" |             | 00°00'00"  | -00°05'36" | 0.003  |
| 16/12/2013 00:00:00 | ♁ | 15°04'48" ♉ | 17°51'06"  |             | -04°45'35" | 04°07'23"  | 0.003  |
| 16/12/2013 00:00:00 | X | 21°54'07" ♏ | -03°31'44" |             | -12°58'55" | -00°00'15" | 95.986 |
| 16/12/2013 00:00:00 | Y | 23°30'55" ♏ | 06°57'58"  |             | -12°02'37" | -00°00'31" | 85.567 |
| 17/12/2013 00:00:00 | ☉ | 25°12'01" ♏ | -23°20'53" | -00°00'00"  | 01°01'02"  |            | 0.984  |
| 17/12/2013 00:00:00 | ☾ | 20°51'48" ♏ | 19°34'10"  | -03°33'32"  | 12°01'41"  |            | 0.003  |
| 17/12/2013 00:00:00 | ♁ | 18°21'54" ♏ | -23°31'26" | o-00°36'01" | 01°33'26"  |            | 1.425  |
| 17/12/2013 00:00:00 | ♀ | 28°30'13" ♏ | -21°17'08" | -00°50'46"  | 00°11'30"  |            | 0.345  |
| 17/12/2013 00:00:00 | ♂ | 04°36'09" ♏ | 00°00'54"  | 02°00'30"   | 00°29'31"  |            | 1.513  |
| 17/12/2013 00:00:00 | ♃ | 18°01'08" ♏ | 22°18'32"  | 00°05'14"   | -00°06'56" |            | 4.265  |
| 17/12/2013 00:00:00 | ♃ | 18°53'23" ♏ | -15°22'35" | 02°08'29"   | 00°06'15"  |            | 10.652 |
| 17/12/2013 00:00:00 | ♃ | 08°35'22" ♏ | 02°45'58"  | -00°41'43"  | -00°00'02" |            | 19.785 |
| 17/12/2013 00:00:00 | ♃ | 02°53'34" ♏ | -11°04'11" | -00°40'27"  | 00°01'06"  |            | 30.339 |
| 17/12/2013 00:00:00 | ♃ | 10°44'03" ♏ | -20°14'25" | 02°46'10"   | 00°02'02"  |            | 33.509 |
| 17/12/2013 00:00:00 | ♁ | 06°50'43" ♏ | -13°47'50" | 00°00'00"   | -00°07'51" |            | 0.003  |
| 17/12/2013 00:00:00 | ♃ | 09°29'04" ♏ | -03°21'58" | 05°00'36"   | 00°01'34"  |            | 17.943 |
| 17/12/2013 00:00:00 | ☾ | 21°17'35" ♉ | 16°48'39"  | -04°59'53"  | 00°06'43"  |            | 0.003  |
| 17/12/2013 00:00:00 | ♁ | 06°50'43" ♏ | -13°47'50" |             | 00°00'00"  | -00°07'51" | 0.003  |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 17/12/2013 00:00:00 | T♄ | 18°51'33" ♉ | 17°17'17"  | -04°51'57" | 03°25'15"  | 0.003  |
| 17/12/2013 00:00:00 | X  | 21°53'51" ♏ | -03°31'41" | -12°58'46" | -00°00'15" | 96.001 |
| 17/12/2013 00:00:00 | Y  | 23°30'24" ♏ | 06°57'55"  | -12°02'32" | -00°00'30" | 85.575 |
| 18/12/2013 00:00:00 | ☉  | 26°13'04" ♏ | -23°22'52" | -00°00'00" | 01°01'02"  | 0.984  |
| 18/12/2013 00:00:00 | ☾  | 02°51'01" ♉ | 19°09'47"  | -04°14'32" | 11°56'56"  | 0.003  |
| 18/12/2013 00:00:00 | ♀  | 19°55'24" ♏ | -23°45'24" | -00°42'21" | 01°33'34"  | 1.430  |
| 18/12/2013 00:00:00 | ♀  | 28°40'36" ♏ | -21°03'58" | -00°39'30" | 00°09'15"  | 0.340  |
| 18/12/2013 00:00:00 | ♂  | 05°05'36" ♏ | -00°10'10" | 02°01'08"  | 00°29'21"  | 1.503  |
| 18/12/2013 00:00:00 | ♃  | 17°54'07" ♉ | 22°19'37"  | 00°05'23"  | -00°07'03" | 4.260  |
| 18/12/2013 00:00:00 | ♅  | 18°59'37" ♏ | -15°24'11" | 02°08'34"  | 00°06'12"  | 10.642 |
| 18/12/2013 00:00:00 | ♁  | 08°35'21" ♏ | 02°46'00"  | -00°41'40" | 00°00'00"  | 19.801 |
| 18/12/2013 00:00:00 | ♃  | 02°54'42" ♏ | -11°03'46" | -00°40'27" | 00°01'08"  | 30.355 |
| 18/12/2013 00:00:00 | ♁  | 10°46'06" ♏ | -20°14'22" | 02°46'03"  | 00°02'03"  | 33.514 |
| 18/12/2013 00:00:00 | ♁  | 06°41'56" ♏ | -13°44'58" | 00°00'00"  | -00°09'34" | 0.003  |
| 18/12/2013 00:00:00 | ♁  | 09°30'39" ♏ | -03°21'41" | 05°00'17"  | 00°01'37"  | 17.960 |
| 18/12/2013 00:00:00 | ♁  | 21°24'19" ♉ | 16°47'25"  | -05°00'06" | 00°06'43"  | 0.003  |
| 18/12/2013 00:00:00 | T♁ | 06°41'56" ♏ | -13°44'58" | 00°00'00"  | -00°09'34" | 0.003  |
| 18/12/2013 00:00:00 | T♄ | 21°56'02" ♉ | 16°46'28"  | -04°56'10" | 02°45'05"  | 0.003  |
| 18/12/2013 00:00:00 | X  | 21°53'36" ♏ | -03°31'37" | -12°58'36" | -00°00'14" | 96.016 |

Ephemerides year 2013

|                     |   |   |            |            |            |        |
|---------------------|---|---|------------|------------|------------|--------|
| 18/12/2013 00:00:00 | Y   | 23°29'53"    | 06°57'52"  | -12°02'27" | -00°00'30" | 85.584 |
| 19/12/2013 00:00:00 |    | 27°14'07"    | -23°24'23" | -00°00'00" | 01°01'03"  | 0.984  |
| 19/12/2013 00:00:00 |    | 14°46'07"    | 17°54'37"  | -04°44'04" | 11°53'30"  | 0.003  |
| 19/12/2013 00:00:00 |    | 21°29'03"    | -23°58'09" | -00°48'33" | 01°33'42"  | 1.434  |
| 19/12/2013 00:00:00 |    | 28°48'43"    | -20°50'52" | -00°27'48" | 00°06'57"  | 0.334  |
| 19/12/2013 00:00:00 |    | 05°34'52"    | -00°21'10" | 02°01'47"  | 00°29'11"  | 1.493  |
| 19/12/2013 00:00:00 |    | 17°47'01"    | 22°20'42"  | 00°05'31"  | -00°07'09" | 4.255  |
| 19/12/2013 00:00:00 |    | 19°05'49"    | -15°25'45" | 02°08'40"  | 00°06'10"  | 10.632 |
| 19/12/2013 00:00:00 |    | 08°35'24"    | 02°46'03"  | -00°41'38" | 00°00'03"  | 19.818 |
| 19/12/2013 00:00:00 |    | 02°55'52"    | -11°03'20" | -00°40'26" | 00°01'10"  | 30.371 |
| 19/12/2013 00:00:00 |    | 10°48'09"    | -20°14'20" | 02°45'56"  | 00°02'03"  | 33.519 |
| 19/12/2013 00:00:00 |    | 06°31'49"    | -13°41'38" | 00°00'00"  | -00°10'31" | 0.003  |
| 19/12/2013 00:00:00 |   | 09°32'18"   | -03°21'23" | 04°59'57"  | 00°01'40"  | 17.977 |
| 19/12/2013 00:00:00 |  | 21°31'02"  | 16°46'12"  | -05°00'18" | 00°06'43"  | 0.003  |
| 19/12/2013 00:00:00 | TΩ  | 06°31'49"  | -13°41'38" | 00°00'00"  | -00°10'31" | 0.003  |
| 19/12/2013 00:00:00 | T♄  | 24°25'46"  | 16°19'19"  | -04°58'59" | 02°16'42"  | 0.003  |
| 19/12/2013 00:00:00 | X   | 21°53'22"  | -03°31'34" | -12°58'27" | -00°00'13" | 96.031 |
| 19/12/2013 00:00:00 | Y   | 23°29'23"  | 06°57'50"  | -12°02'23" | -00°00'29" | 85.592 |
| 20/12/2013 00:00:00 |  | 28°15'11"  | -23°25'25" | -00°00'00" | 01°01'04"  | 0.984  |

Ephemerides year 2013

|                     |   |             |            |             |            |        |
|---------------------|---|-------------|------------|-------------|------------|--------|
| 20/12/2013 00:00:00 | ♃ | 26°38'33" ♉ | 15°53'36"  | -05°01'08"  | 11°51'39"  | 0.003  |
| 20/12/2013 00:00:00 | ♆ | 23°02'50" ♋ | -24°09'40" | 0-00°54'35" | 01°33'52"  | 1.437  |
| 20/12/2013 00:00:00 | ♀ | 28°54'30" ♌ | -20°37'50" | -00°15'42"  | 00°04'36"  | 0.329  |
| 20/12/2013 00:00:00 | ♂ | 06°03'58" ♈ | -00°32'05" | 02°02'25"   | 00°29'01"  | 1.484  |
| 20/12/2013 00:00:00 | ♃ | 17°39'48" ♉ | 22°21'47"  | 00°05'40"   | -00°07'16" | 4.249  |
| 20/12/2013 00:00:00 | ♄ | 19°11'57" ♋ | -15°27'19" | 02°08'46"   | 00°06'07"  | 10.622 |
| 20/12/2013 00:00:00 | ♃ | 08°35'29" ♈ | 02°46'08"  | -00°41'35"  | 00°00'06"  | 19.835 |
| 20/12/2013 00:00:00 | ♃ | 02°57'03" ♈ | -11°02'54" | -00°40'26"  | 00°01'12"  | 30.387 |
| 20/12/2013 00:00:00 | ♃ | 10°50'13" ♈ | -20°14'17" | 02°45'49"   | 00°02'04"  | 33.523 |
| 20/12/2013 00:00:00 | ♄ | 06°21'13" ♋ | -13°38'09" | 00°00'00"   | -00°10'30" | 0.003  |
| 20/12/2013 00:00:00 | ♃ | 09°34'00" ♈ | -03°21'03" | 04°59'37"   | 00°01'43"  | 17.995 |
| 20/12/2013 00:00:00 | ♃ | 21°37'45" ♉ | 16°44'59"  | -05°00'31"  | 00°06'43"  | 0.003  |
| 20/12/2013 00:00:00 | ♄ | 06°21'13" ♋ | -13°38'09" | 00°00'00"   | -00°10'30" | 0.003  |
| 20/12/2013 00:00:00 | ♃ | 26°33'46" ♉ | 15°54'33"  | -05°01'03"  | 02°01'02"  | 0.003  |
| 20/12/2013 00:00:00 | X | 21°53'09" ♋ | -03°31'30" | -12°58'17"  | -00°00'13" | 96.046 |
| 20/12/2013 00:00:00 | Y | 23°28'54" ♋ | 06°57'48"  | -12°02'18"  | -00°00'29" | 85.601 |
| 21/12/2013 00:00:00 | ♃ | 29°16'15" ♋ | -23°26'00" | -00°00'00"  | 01°01'04"  | 0.984  |
| 21/12/2013 00:00:00 | ♃ | 08°30'06" ♈ | 13°13'08"  | -05°05'10"  | 11°51'50"  | 0.003  |
| 21/12/2013 00:00:00 | ♆ | 24°36'47" ♋ | -24°19'56" | 0-01°00'27" | 01°34'02"  | 1.440  |

Ephemerides year 2013

|                     |    |             |            |             |            |        |
|---------------------|----|-------------|------------|-------------|------------|--------|
| 21/12/2013 00:00:00 | ♀  | 28°57'55" ♍ | -20°24'53" | -00°03'11"  | 00°02'12"  | 0.324  |
| 21/12/2013 00:00:00 | ♂  | 06°32'54" ♋ | -00°42'55" | 02°03'04"   | 00°28'50"  | 1.474  |
| 21/12/2013 00:00:00 | ♃  | 17°32'29" ♈ | 22°22'53"  | 00°05'49"   | -00°07'21" | 4.245  |
| 21/12/2013 00:00:00 | ♅  | 19°18'03" ♌ | -15°28'52" | 02°08'53"   | 00°06'04"  | 10.611 |
| 21/12/2013 00:00:00 | ♁  | 08°35'38" ♉ | 02°46'13"  | -00°41'33"  | 00°00'10"  | 19.852 |
| 21/12/2013 00:00:00 | ♆  | 02°58'16" ♎ | -11°02'27" | -00°40'25"  | 00°01'14"  | 30.403 |
| 21/12/2013 00:00:00 | ♁  | 10°52'18" ♍ | -20°14'14" | 02°45'42"   | 00°02'04"  | 33.527 |
| 21/12/2013 00:00:00 | ♁  | 06°11'06" ♌ | -13°34'49" | 00°00'00"   | -00°09'32" | 0.003  |
| 21/12/2013 00:00:00 | ♃  | 09°35'46" ♈ | -03°20'42" | 04°59'18"   | 00°01'46"  | 18.012 |
| 21/12/2013 00:00:00 | ♁  | 21°44'28" ♈ | 16°43'45"  | -05°00'43"  | 00°06'43"  | 0.003  |
| 21/12/2013 00:00:00 | T♁ | 06°11'06" ♌ | -13°34'49" | 00°00'00"   | -00°09'32" | 0.003  |
| 21/12/2013 00:00:00 | T♁ | 28°30'00" ♈ | 15°30'51"  | -05°02'42"  | 01°51'46"  | 0.003  |
| 21/12/2013 00:00:00 | X  | 21°52'56" ♎ | -03°31'25" | -12°58'08"  | -00°00'12" | 96.062 |
| 21/12/2013 00:00:00 | Y  | 23°28'25" ♎ | 06°57'46"  | -12°02'13"  | -00°00'29" | 85.610 |
| 22/12/2013 00:00:00 | ♁  | 00°17'21" ♍ | -23°26'06" | -00°00'00"  | 01°01'05"  | 0.984  |
| 22/12/2013 00:00:00 | ♃  | 20°23'07" ♈ | 10°00'17"  | -04°56'03"  | 11°54'40"  | 0.003  |
| 22/12/2013 00:00:00 | ♁  | 26°10'54" ♎ | -24°28'56" | 0-01°06'09" | 01°34'12"  | 1.442  |
| 22/12/2013 00:00:00 | ♀  | 28°58'55" ♍ | -20°12'02" | 00°09'43"   | -00°00'12" | 0.319  |
| 22/12/2013 00:00:00 | ♂  | 07°01'40" ♋ | -00°53'41" | 02°03'43"   | 00°28'40"  | 1.464  |



Ephemerides year 2013

|                     |    |           |   |            |   |            |   |            |        |
|---------------------|----|-----------|---|------------|---|------------|---|------------|--------|
| 22/12/2013 00:00:00 | ♃  | 17°25'04" | ♉ | 22°23'59"  | ♊ | 00°05'58"  | ♋ | -00°07'27" | 4.240  |
| 22/12/2013 00:00:00 | ♈  | 19°24'05" | ♎ | -15°30'23" | ♌ | 02°08'59"  | ♍ | 00°06'00"  | 10.600 |
| 22/12/2013 00:00:00 | ♉  | 08°35'49" | ♋ | 02°46'20"  | ♈ | -00°41'31" | ♉ | 00°00'13"  | 19.869 |
| 22/12/2013 00:00:00 | ♊  | 02°59'31" | ♈ | -11°01'59" | ♊ | -00°40'24" | ♋ | 00°01'15"  | 30.418 |
| 22/12/2013 00:00:00 | ♋  | 10°54'23" | ♌ | -20°14'10" | ♋ | 02°45'36"  | ♌ | 00°02'04"  | 33.531 |
| 22/12/2013 00:00:00 | ♌  | 06°02'24" | ♎ | -13°31'56" | ♌ | 00°00'00"  | ♍ | -00°07'45" | 0.003  |
| 22/12/2013 00:00:00 | ♍  | 09°37'34" | ♈ | -03°20'19" | ♍ | 04°58'59"  | ♉ | 00°01'49"  | 18.029 |
| 22/12/2013 00:00:00 | ♎  | 21°51'12" | ♉ | 16°42'31"  | ♎ | -05°00'55" | ♊ | 00°06'43"  | 0.003  |
| 22/12/2013 00:00:00 | T♌ | 06°02'24" | ♎ | -13°31'56" |   | 00°00'00"  | ♍ | -00°07'45" | 0.003  |
| 22/12/2013 00:00:00 | T♋ | 00°16'36" | ♌ | 15°08'05"  |   | -05°04'00" | ♈ | 01°40'26"  | 0.003  |
| 22/12/2013 00:00:00 | X  | 21°52'43" | ♋ | -03°31'21" |   | -12°57'58" | ♊ | -00°00'12" | 96.077 |
| 22/12/2013 00:00:00 | Y  | 23°27'56" | ♉ | 06°57'44"  |   | -12°02'08" | ♈ | -00°00'28" | 85.619 |
| 23/12/2013 00:00:00 | ♋  | 01°18'26" | ♌ | -23°25'44" | ♋ | -00°00'00" | ♈ | 01°01'06"  | 0.984  |
| 23/12/2013 00:00:00 | ♌  | 02°20'35" | ♎ | 06°22'17"  | ♌ | -04°33'58" | ♊ | 12°00'51"  | 0.003  |
| 23/12/2013 00:00:00 | ♍  | 27°45'13" | ♈ | -24°36'37" | ♍ | -01°11'40" | ♉ | 01°34'24"  | 1.444  |
| 23/12/2013 00:00:00 | ♎  | 28°57'29" | ♌ | -19°59'18" | ♎ | 00°23'01"  | ♈ | -00°02'40" | 0.314  |
| 23/12/2013 00:00:00 | ♏  | 07°30'14" | ♋ | -01°04'21" | ♏ | 02°04'22"  | ♊ | 00°28'29"  | 1.454  |
| 23/12/2013 00:00:00 | ♃  | 17°17'34" | ♉ | 22°25'05"  | ♃ | 00°06'06"  | ♋ | -00°07'32" | 4.236  |
| 23/12/2013 00:00:00 | ♈  | 19°30'05" | ♎ | -15°31'53" | ♈ | 02°09'05"  | ♍ | 00°05'57"  | 10.589 |

Ephemerides year 2013

|                     |    |             |            |            |            |        |
|---------------------|----|-------------|------------|------------|------------|--------|
| 23/12/2013 00:00:00 | ♃  | 08°36'04" ♀ | 02°46'28"  | -00°41'28" | 00°00'16"  | 19.886 |
| 23/12/2013 00:00:00 | ♃  | 03°00'48" ♀ | -11°01'31" | -00°40'24" | 00°01'17"  | 30.433 |
| 23/12/2013 00:00:00 | ♃  | 10°56'28" ♀ | -20°14'07" | 02°45'29"  | 00°02'05"  | 33.535 |
| 23/12/2013 00:00:00 | ♃  | 05°55'45" ♀ | -13°29'44" | 00°00'00"  | -00°05'27" | 0.003  |
| 23/12/2013 00:00:00 | ♃  | 09°39'25" ♀ | -03°19'56" | 04°58'40"  | 00°01'52"  | 18.046 |
| 23/12/2013 00:00:00 | ♃  | 21°57'55" ♀ | 16°41'17"  | -05°01'06" | 00°06'43"  | 0.003  |
| 23/12/2013 00:00:00 | T♃ | 05°55'45" ♀ | -13°29'44" | 00°00'00"  | -00°05'27" | 0.003  |
| 23/12/2013 00:00:00 | T♃ | 01°47'50" ♀ | 14°47'51"  | -05°04'57" | 01°20'05"  | 0.003  |
| 23/12/2013 00:00:00 | X  | 21°52'32" ♀ | -03°31'16" | -12°57'48" | -00°00'11" | 96.093 |
| 23/12/2013 00:00:00 | Y  | 23°27'27" ♀ | 06°57'43"  | -12°02'02" | -00°00'28" | 85.629 |
| 24/12/2013 00:00:00 | ♃  | 02°19'33" ♀ | -23°24'53" | -00°00'00" | 01°01'06"  | 0.984  |
| 24/12/2013 00:00:00 | ♃  | 14°26'10" ♀ | 02°26'28"  | -03°59'27" | 12°11'02"  | 0.003  |
| 24/12/2013 00:00:00 | ♃  | 29°19'44" ♀ | -24°43'00" | -01°16'59" | 01°34'37"  | 1.445  |
| 24/12/2013 00:00:00 | ♃  | 28°53'34" ♀ | -19°46'43" | 00°36'42"  | -00°05'09" | 0.310  |
| 24/12/2013 00:00:00 | ♃  | 07°58'38" ♀ | -01°14'56" | 02°05'01"  | 00°28'17"  | 1.444  |
| 24/12/2013 00:00:00 | ♃  | 17°09'59" ♀ | 22°26'12"  | 00°06'15"  | -00°07'37" | 4.232  |
| 24/12/2013 00:00:00 | ♃  | 19°36'01" ♀ | -15°33'22" | 02°09'12"  | 00°05'54"  | 10.578 |
| 24/12/2013 00:00:00 | ♃  | 08°36'22" ♀ | 02°46'37"  | -00°41'26" | 00°00'19"  | 19.903 |
| 24/12/2013 00:00:00 | ♃  | 03°02'06" ♀ | -11°01'02" | -00°40'23" | 00°01'19"  | 30.448 |

Ephemerides year 2013

|                     |   |             |            |             |            |        |
|---------------------|---|-------------|------------|-------------|------------|--------|
| 24/12/2013 00:00:00 | ♁ | 10°58'33" ♉ | -20°14'03" | 02°45'22"   | 00°02'05"  | 33.538 |
| 24/12/2013 00:00:00 | ♁ | 05°51'31" ♉ | -13°28'20" | 00°00'00"   | -00°03'01" | 0.003  |
| 24/12/2013 00:00:00 | ♊ | 09°41'19" ♉ | -03°19'31" | 04°58'21"   | 00°01'55"  | 18.062 |
| 24/12/2013 00:00:00 | ♋ | 22°04'38" ♉ | 16°40'03"  | -05°01'18"  | 00°06'43"  | 0.003  |
| 24/12/2013 00:00:00 | ♁ | 05°51'31" ♉ | -13°28'20" | 00°00'00"   | -00°03'01" | 0.003  |
| 24/12/2013 00:00:00 | ♋ | 02°52'23" ♉ | 14°33'07"  | -05°05'34"  | 00°46'40"  | 0.003  |
| 24/12/2013 00:00:00 | ♁ | 21°52'20" ♉ | -03°31'11" | -12°57'38"  | -00°00'10" | 96.109 |
| 24/12/2013 00:00:00 | ♁ | 23°26'59" ♉ | 06°57'41"  | -12°01'57"  | -00°00'27" | 85.639 |
| 25/12/2013 00:00:00 | ♁ | 03°20'40" ♉ | -23°23'35" | -00°00'00"  | 01°01'07"  | 0.984  |
| 25/12/2013 00:00:00 | ♁ | 26°44'11" ♉ | -01°39'36" | -03°13'21"  | 12°25'45"  | 0.003  |
| 25/12/2013 00:00:00 | ♋ | 00°54'28" ♉ | -24°48'02" | 0-01°22'07" | 01°34'50"  | 1.445  |
| 25/12/2013 00:00:00 | ♋ | 28°47'09" ♉ | -19°34'17" | 00°50'44"   | -00°07'39" | 0.305  |
| 25/12/2013 00:00:00 | ♋ | 08°26'50" ♉ | -01°25'26" | 02°05'40"   | 00°28'06"  | 1.434  |
| 25/12/2013 00:00:00 | ♋ | 17°02'20" ♉ | 22°27'19"  | 00°06'24"   | -00°07'41" | 4.229  |
| 25/12/2013 00:00:00 | ♋ | 19°41'54" ♉ | -15°34'50" | 02°09'19"   | 00°05'51"  | 10.567 |
| 25/12/2013 00:00:00 | ♋ | 08°36'42" ♉ | 02°46'47"  | -00°41'23"  | 00°00'22"  | 19.921 |
| 25/12/2013 00:00:00 | ♋ | 03°03'27" ♉ | -11°00'33" | -00°40'22"  | 00°01'21"  | 30.464 |
| 25/12/2013 00:00:00 | ♁ | 11°00'39" ♉ | -20°14'00" | 02°45'16"   | 00°02'05"  | 33.541 |
| 25/12/2013 00:00:00 | ♁ | 05°49'36" ♉ | -13°27'42" | 00°00'00"   | -00°00'54" | 0.003  |

Ephemerides year 2013

|                     |   |           |   |            |            |            |        |
|---------------------|---|-----------|---|------------|------------|------------|--------|
| 25/12/2013 00:00:00 | ♄ | 09°43'17" | ♈ | -03°19'04" | 04°58'02"  | 00°01'58"  | 18.079 |
| 25/12/2013 00:00:00 | ♁ | 22°11'21" | ♉ | 16°38'49"  | -05°01'30" | 00°06'43"  | 0.003  |
| 25/12/2013 00:00:00 | ♁ | 05°49'36" | ♈ | -13°27'42" | 00°00'00"  | -00°00'54" | 0.003  |
| 25/12/2013 00:00:00 | ♁ | 03°16'34" | ♈ | 14°27'27"  | -05°05'51" | -00°00'25" | 0.003  |
| 25/12/2013 00:00:00 | X | 21°52'10" | ♈ | -03°31'06" | -12°57'29" | -00°00'10" | 96.125 |
| 25/12/2013 00:00:00 | Y | 23°26'32" | ♈ | 06°57'40"  | -12°01'51" | -00°00'27" | 85.649 |
| 26/12/2013 00:00:00 | ♁ | 04°21'48" | ♈ | -23°21'48" | -00°00'00" | 01°01'08"  | 0.984  |
| 26/12/2013 00:00:00 | ♁ | 09°19'17" | ♈ | -05°47'27" | -02°16'54" | 12°45'15"  | 0.003  |
| 26/12/2013 00:00:00 | ♁ | 02°29'26" | ♈ | -24°51'43" | 01°27'01"  | 01°35'05"  | 1.445  |
| 26/12/2013 00:00:00 | ♁ | 28°38'15" | ♈ | -19°22'02" | 01°05'05"  | -00°10'08" | 0.301  |
| 26/12/2013 00:00:00 | ♁ | 08°54'51" | ♈ | -01°35'50" | 02°06'20"  | 00°27'54"  | 1.425  |
| 26/12/2013 00:00:00 | ♁ | 16°54'36" | ♈ | 22°28'26"  | 00°06'33"  | -00°07'45" | 4.226  |
| 26/12/2013 00:00:00 | ♁ | 19°47'43" | ♈ | -15°36'16" | 02°09'26"  | 00°05'47"  | 10.555 |
| 26/12/2013 00:00:00 | ♁ | 08°37'06" | ♈ | 02°46'59"  | -00°41'21" | 00°00'25"  | 19.938 |
| 26/12/2013 00:00:00 | ♁ | 03°04'49" | ♈ | -11°00'02" | -00°40'22" | 00°01'22"  | 30.478 |
| 26/12/2013 00:00:00 | ♁ | 11°02'44" | ♈ | -20°13'56" | 02°45'10"  | 00°02'05"  | 33.544 |
| 26/12/2013 00:00:00 | ♁ | 05°49'27" | ♈ | -13°27'39" | 00°00'00"  | 00°00'28"  | 0.003  |
| 26/12/2013 00:00:00 | ♁ | 09°45'17" | ♈ | -03°18'37" | 04°57'43"  | 00°02'01"  | 18.096 |
| 26/12/2013 00:00:00 | ♁ | 22°18'04" | ♈ | 16°37'35"  | -05°01'41" | 00°06'43"  | 0.003  |

Ephemerides year 2013

|                     |    |             |            |             |            |        |
|---------------------|----|-------------|------------|-------------|------------|--------|
| 26/12/2013 00:00:00 | T♄ | 05°49'27" ♎ | -13°27'39" | 00°00'00"   | 00°00'28"  | 0.003  |
| 26/12/2013 00:00:00 | T♄ | 02°48'12" ♏ | 14°33'53"  | -05°05'44"  | -00°57'18" | 0.003  |
| 26/12/2013 00:00:00 | X  | 21°52'00" ♏ | -03°31'00" | -12°57'19"  | -00°00'09" | 96.141 |
| 26/12/2013 00:00:00 | Y  | 23°26'05" ♏ | 06°57'39"  | -12°01'46"  | -00°00'26" | 85.659 |
| 27/12/2013 00:00:00 | ☉  | 05°22'56" ♏ | -23°19'32" | -00°00'00"  | 01°01'08"  | 0.983  |
| 27/12/2013 00:00:00 | ☾  | 22°16'12" ♏ | -09°46'53" | -01°11'57"  | 13°09'17"  | 0.003  |
| 27/12/2013 00:00:00 | ☿  | 04°04'39" ♏ | -24°54'00" | 0-01°31'43" | 01°35'20"  | 1.445  |
| 27/12/2013 00:00:00 | ♀  | 28°26'52" ♏ | -19°09'57" | 01°19'45"   | -00°12'37" | 0.297  |
| 27/12/2013 00:00:00 | ♂  | 09°22'40" ♏ | -01°46'09" | 02°06'59"   | 00°27'43"  | 1.415  |
| 27/12/2013 00:00:00 | ♃  | 16°46'48" ♏ | 22°29'33"  | 00°06'41"   | -00°07'49" | 4.223  |
| 27/12/2013 00:00:00 | ♅  | 19°53'30" ♎ | -15°37'41" | 02°09'33"   | 00°05'44"  | 10.543 |
| 27/12/2013 00:00:00 | ♁  | 08°37'33" ♏ | 02°47'12"  | -00°41'19"  | 00°00'28"  | 19.955 |
| 27/12/2013 00:00:00 | ♆  | 03°06'12" ♏ | -10°59'32" | -00°40'21"  | 00°01'24"  | 30.493 |
| 27/12/2013 00:00:00 | ♁  | 11°04'50" ♏ | -20°13'52" | 02°45'03"   | 00°02'06"  | 33.546 |
| 27/12/2013 00:00:00 | ♁  | 05°50'11" ♎ | -13°27'53" | 00°00'00"   | 00°00'49"  | 0.003  |
| 27/12/2013 00:00:00 | ♁  | 09°47'20" ♏ | -03°18'08" | 04°57'25"   | 00°02'04"  | 18.112 |
| 27/12/2013 00:00:00 | ♁  | 22°24'48" ♏ | 16°36'20"  | -05°01'52"  | 00°06'43"  | 0.003  |
| 27/12/2013 00:00:00 | T♄ | 05°50'11" ♎ | -13°27'53" | 00°00'00"   | 00°00'49"  | 0.003  |
| 27/12/2013 00:00:00 | T♄ | 01°21'52" ♏ | 14°53'20"  | -05°05'03"  | -01°54'15" | 0.003  |

Ephemerides year 2013

|                     |    |           |            |             |            |        |
|---------------------|----|-----------|------------|-------------|------------|--------|
| 27/12/2013 00:00:00 | X  | 21°51'51" | -03°30'54" | -12°57'09"  | -00°00'08" | 96.157 |
| 27/12/2013 00:00:00 | Y  | 23°25'38" | 06°57'39"  | -12°01'40"  | -00°00'26" | 85.670 |
| 28/12/2013 00:00:00 |    | 06°24'05" | -23°16'49" | -00°00'00"  | 01°01'09"  | 0.983  |
| 28/12/2013 00:00:00 |    | 05°39'05" | -13°25'11" | -00°01'02"  | 13°36'58"  | 0.003  |
| 28/12/2013 00:00:00 |    | 05°40'08" | -24°54'54" | 0-01°36'10" | 01°35'36"  | 1.444  |
| 28/12/2013 00:00:00 |    | 28°13'01" | -18°58'05" | 01°34'41"   | -00°15'04" | 0.293  |
| 28/12/2013 00:00:00 |    | 09°50'17" | -01°56'22" | 02°07'39"   | 00°27'30"  | 1.405  |
| 28/12/2013 00:00:00 |    | 16°38'56" | 22°30'40"  | 00°06'50"   | -00°07'53" | 4.220  |
| 28/12/2013 00:00:00 |    | 19°59'12" | -15°39'05" | 02°09'40"   | 00°05'41"  | 10.531 |
| 28/12/2013 00:00:00 |    | 08°38'04" | 02°47'26"  | -00°41'16"  | 00°00'31"  | 19.972 |
| 28/12/2013 00:00:00 |    | 03°07'37" | -10°59'00" | -00°40'21"  | 00°01'26"  | 30.508 |
| 28/12/2013 00:00:00 |    | 11°06'57" | -20°13'48" | 02°44'57"   | 00°02'06"  | 33.548 |
| 28/12/2013 00:00:00 |    | 05°50'42" | -13°28'04" | 00°00'00"   | 00°00'01"  | 0.003  |
| 28/12/2013 00:00:00 |    | 09°49'26" | -03°17'38" | 04°57'06"   | 00°02'07"  | 18.128 |
| 28/12/2013 00:00:00 |    | 22°31'31" | 16°35'06"  | -05°02'03"  | 00°06'43"  | 0.003  |
| 28/12/2013 00:00:00 | T♁ | 05°50'42" | -13°28'04" | 00°00'00"   | 00°00'01"  | 0.003  |
| 28/12/2013 00:00:00 | T♁ | 29°04'27" | 15°23'17"  | -05°03'26"  | -02°36'59" | 0.003  |
| 28/12/2013 00:00:00 | X  | 21°51'42" | -03°30'48" | -12°56'59"  | -00°00'08" | 96.173 |
| 28/12/2013 00:00:00 | Y  | 23°25'12" | 06°57'38"  | -12°01'34"  | -00°00'25" | 85.680 |

Ephemerides year 2013

|                     |    |             |            |             |            |        |
|---------------------|----|-------------|------------|-------------|------------|--------|
| 29/12/2013 00:00:00 | ☉  | 07°25'15" ♍ | -23°13'38" | -00°00'00"  | 01°01'09"  | 0.983  |
| 29/12/2013 00:00:00 | ☾  | 19°30'46" ♎ | -16°26'46" | 01°12'18"   | 14°06'30"  | 0.002  |
| 29/12/2013 00:00:00 | ♀  | 07°15'53" ♍ | -24°54'23" | 0-01°40'23" | 01°35'54"  | 1.442  |
| 29/12/2013 00:00:00 | ♀  | 27°56'44" ♍ | -18°46'26" | 01°49'52"   | -00°17'28" | 0.289  |
| 29/12/2013 00:00:00 | ♂  | 10°17'42" ♌ | -02°06'29" | 02°08'19"   | 00°27'18"  | 1.395  |
| 29/12/2013 00:00:00 | ♋  | 16°31'02" ♎ | 22°31'47"  | 00°06'59"   | -00°07'56" | 4.218  |
| 29/12/2013 00:00:00 | ♌  | 20°04'52" ♎ | -15°40'28" | 02°09'48"   | 00°05'37"  | 10.519 |
| 29/12/2013 00:00:00 | ♍  | 08°38'37" ♏ | 02°47'41"  | -00°41'14"  | 00°00'34"  | 19.989 |
| 29/12/2013 00:00:00 | ♎  | 03°09'04" ♏ | -10°58'28" | -00°40'20"  | 00°01'27"  | 30.522 |
| 29/12/2013 00:00:00 | ♏  | 11°09'03" ♍ | -20°13'44" | 02°44'51"   | 00°02'06"  | 33.550 |
| 29/12/2013 00:00:00 | ♐  | 05°49'53" ♎ | -13°27'47" | 00°00'00"   | -00°01'49" | 0.003  |
| 29/12/2013 00:00:00 | ♑  | 09°51'36" ♏ | -03°17'07" | 04°56'48"   | 00°02'10"  | 18.145 |
| 29/12/2013 00:00:00 | ♒  | 22°38'14" ♏ | 16°33'51"  | -05°02'14"  | 00°06'43"  | 0.003  |
| 29/12/2013 00:00:00 | T♐ | 05°49'53" ♎ | -13°27'47" | 00°00'00"   | -00°01'49" | 0.003  |
| 29/12/2013 00:00:00 | T♑ | 26°16'48" ♎ | 15°57'57"  | -05°00'46"  | -02°53'24" | 0.003  |
| 29/12/2013 00:00:00 | X  | 21°51'34" ♏ | -03°30'42" | -12°56'49"  | -00°00'07" | 96.190 |
| 29/12/2013 00:00:00 | Y  | 23°24'47" ♏ | 06°57'38"  | -12°01'28"  | -00°00'25" | 85.691 |
| 30/12/2013 00:00:00 | ☉  | 08°26'25" ♍ | -23°09'59" | 00°00'00"   | 01°01'10"  | 0.983  |
| 30/12/2013 00:00:00 | ☾  | 03°51'49" ♏ | -18°34'06" | 02°23'31"   | 14°35'08"  | 0.002  |

Ephemerides year 2013

|                     |    |             |            |             |            |        |
|---------------------|----|-------------|------------|-------------|------------|--------|
| 30/12/2013 00:00:00 | ♀  | 08°51'56" ♍ | -24°52'26" | ♁-01°44'21" | 01°36'12"  | 1.440  |
| 30/12/2013 00:00:00 | ♀  | 27°38'05" ♍ | -18°35'01" | 02°05'14"   | -00°19'49" | 0.286  |
| 30/12/2013 00:00:00 | ♂  | 10°44'54" ♋ | -02°16'30" | 02°08'59"   | 00°27'05"  | 1.385  |
| 30/12/2013 00:00:00 | ♃  | 16°23'04" ♉ | 22°32'53"  | 00°07'07"   | -00°07'58" | 4.216  |
| 30/12/2013 00:00:00 | ♃  | 20°10'27" ♎ | -15°41'49" | 02°09'55"   | 00°05'33"  | 10.507 |
| 30/12/2013 00:00:00 | ♃  | 08°39'14" ♎ | 02°47'58"  | -00°41'11"  | 00°00'38"  | 20.007 |
| 30/12/2013 00:00:00 | ♃  | 03°10'33" ♋ | -10°57'56" | -00°40'20"  | 00°01'29"  | 30.536 |
| 30/12/2013 00:00:00 | ♃  | 11°11'10" ♍ | -20°13'39" | 02°44'45"   | 00°02'06"  | 33.552 |
| 30/12/2013 00:00:00 | ♁  | 05°46'50" ♎ | -13°26'47" | 00°00'00"   | -00°04'20" | 0.003  |
| 30/12/2013 00:00:00 | ♁  | 09°53'48" ♋ | -03°16'35" | 04°56'30"   | 00°02'13"  | 18.161 |
| 30/12/2013 00:00:00 | ♁  | 22°44'58" ♉ | 16°32'36"  | -05°02'25"  | 00°06'43"  | 0.003  |
| 30/12/2013 00:00:00 | T♁ | 05°46'50" ♎ | -13°26'47" | 00°00'00"   | -00°04'20" | 0.003  |
| 30/12/2013 00:00:00 | T♁ | 23°26'49" ♉ | 16°30'52"  | -04°57'17"  | -02°42'46" | 0.003  |
| 30/12/2013 00:00:00 | X  | 21°51'27" ♎ | -03°30'35" | -12°56'39"  | -00°00'06" | 96.206 |
| 30/12/2013 00:00:00 | Y  | 23°24'22" ♉ | 06°57'38"  | -12°01'22"  | -00°00'24" | 85.703 |
| 31/12/2013 00:00:00 | ♁  | 09°27'35" ♍ | -23°05'51" | 00°00'00"   | 01°01'10"  | 0.983  |
| 31/12/2013 00:00:00 | ♁  | 18°39'35" ♋ | -19°30'34" | 03°27'13"   | 14°59'21"  | 0.002  |
| 31/12/2013 00:00:00 | ♀  | 10°28'17" ♍ | -24°49'02" | ♁-01°48'03" | 01°36'30"  | 1.437  |
| 31/12/2013 00:00:00 | ♀  | 27°17'06" ♍ | -18°23'50" | 02°20'45"   | -00°22'06" | 0.283  |



Ephemerides year 2013

|                     |   |             |            |            |            |        |
|---------------------|---|-------------|------------|------------|------------|--------|
| 31/12/2013 00:00:00 | ♂ | 11°11'52" ♉ | -02°26'25" | 02°09'40"  | 00°26'52"  | 1.375  |
| 31/12/2013 00:00:00 | ♃ | 16°15'04" ♉ | 22°34'00"  | 00°07'16"  | -00°08'01" | 4.214  |
| 31/12/2013 00:00:00 | ♃ | 20°15'59" ♉ | -15°43'10" | 02°10'03"  | 00°05'30"  | 10.494 |
| 31/12/2013 00:00:00 | ♃ | 08°39'53" ♉ | 02°48'16"  | -00°41'09" | 00°00'41"  | 20.024 |
| 31/12/2013 00:00:00 | ♃ | 03°12'03" ♉ | -10°57'23" | -00°40'19" | 00°01'31"  | 30.550 |
| 31/12/2013 00:00:00 | ♃ | 11°13'17" ♉ | -20°13'35" | 02°44'39"  | 00°02'06"  | 33.553 |
| 31/12/2013 00:00:00 | ♃ | 05°41'08" ♉ | -13°24'53" | 00°00'00"  | -00°07'02" | 0.003  |
| 31/12/2013 00:00:00 | ♃ | 09°56'03" ♉ | -03°16'01" | 04°56'12"  | 00°02'16"  | 18.177 |
| 31/12/2013 00:00:00 | ♃ | 22°51'41" ♉ | 16°31'21"  | -05°02'36" | 00°06'43"  | 0.003  |
| 31/12/2013 00:00:00 | ♃ | 05°41'08" ♉ | -13°24'53" | 00°00'00"  | -00°07'02" | 0.003  |
| 31/12/2013 00:00:00 | ♃ | 20°56'03" ♉ | 16°58'03"  | -04°53'37" | -02°17'52" | 0.003  |
| 31/12/2013 00:00:00 | X | 21°51'20" ♉ | -03°30'28" | -12°56'29" | -00°00'06" | 96.222 |
| 31/12/2013 00:00:00 | Y | 23°23'58" ♉ | 06°57'39"  | -12°01'16" | -00°00'24" | 85.714 |